


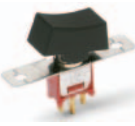






# Rockers

## Product Selection Guide

Rocker							
Series	7000	E	ET	T	9000	DA	D
Switch Type	Miniature	Miniature	Subminiature	Subminiature	Power Rocker & Lever Handle	Miniature Power	Miniature Power
Poles/Throws	SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT, 3PDT	SPST, SPDT, DPDT	SPST, SPDT, DPDT	DPDT	SPST, SPDT	SPST, SPDT, DPST, DPDT
Max. Current	5 Amps	7.5 Amps	3 Amps	3 Amps	10 Amps	16 Amps 10 Amps	4 Amps 10 Amps
Washable		•	•				
Illuminated						•	
Panel Mount Options							
Front Mount	•	•		•	•	Snap-in	Snap-in
Rear Mount	•	•		•	•		
PCB Mount Options							
Vertical	•	•	•	•	•	•	•
Right Angle	•	•	•	•	•	•	•
Surface Mount			•				
Page No.	G-4	G-26	G-40	G-46	G-52	G-57	G-61

Rocker							
Series	DM	DM	DF	CR	CG	CL	CM
Switch Type	Miniature 2 Pole Power	Miniature Illuminated Power	Power	Round	Power	Power	Power
Poles/Throws	DPST, DPDT	SPST, DPST	SPST, SPDT, DPST	SPST, SPDT	SPST, SPDT	SPST, SPDT	SPST, SPDT
Max. Current	3 Amps, 10 Amps	3 Amps, 10 Amps	16 Amps	10 Amps, 6 Amps	16 Amps 10 Amps	16 Amps 10 Amps	16 A 10 A
Washable							
Illuminated		•		•	•	•	•
Panel Mount Options							
Front Mount	Snap-in	Snap-in	Snap-in	Snap-in	Snap-in	Snap-in	Snap-in
Rear Mount			•				
PCB Mount Options							
Vertical							
Right Angle			•				
Surface Mount							
Page No.	G-66	G-70	G-74	G-78	G-82	G-86	G-90

Rocker







G

**C&K**

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# Rockers

## Product Selection Guide

Rocker				
Series	CN	CA	CA	SW
Switch Type	Power	Power	Illuminated Power	Miniature Power
Poles/Throws	DPST, DPDT	SPST, SPDT, DPST, DPDT	SPST, DPST	SPST, SPDT, DPST
Max. Current	16 A 10 A	15 A	15 A	3 A, 6 A, 6.5 A, 10 A, 16 A
Washable				
Illuminated	•		•	•
Panel Mount Options				
Front Mount	•	Snap-in	Snap-in	Snap-in
Rear Mount				
PCB Mount Options				
Vertical				
Right Angle				
Surface Mount				
Page No.	G-94	G-98	G-102	G-106

# 7000 Series

## Miniature Rocker & Lever Handle Switches

### Features/Benefits

- Multi-pole and multi-position
- Wide variety of actuator and termination options
- Epoxy terminal-seal compatible with bottom wash cleaning
- RoHS compliant

### Typical Applications

- Telecommunications
- Instrumentation
- Medical equipment



### Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: 5 AMPS @ 120 V AC or 28 V DC; 2 AMPS @ 250 V AC. See page G-21 for additional ratings.

ELECTRICAL LIFE: 7X01 and UX1 models: 100,000 make-and-break cycles at full load. All other models: 40,000 cycles.

CONTACT RESISTANCE: Below 10 m  $\Omega$  typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE:  $10^9 \Omega$  min.

DIELECTRIC STRENGTH: 1000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

**NOTE:** Any models supplied with S, P, R, Q, B or G contact material are RoHS compliant.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Materials

CASE: Glass filled nylon 6/6, flame retardant, heat stabilized, or diallyl phthalate (DAP) (UL 94V-0).

ACTUATOR: Nylon, black.

FRAME (FRONT MOUNT): Nylon, black.

FRAME (REAR MOUNT): Spring steel, black.

BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, matte-tin plated.

END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page G-21 for additional contact materials.

CENTER CONTACTS & ALL TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-21 for additional contact materials.

TERMINAL SEAL: Epoxy. Refer to Soldering and Cleaning in Technical Data Section

HARDWARE: Mounting nuts & screws: Brass. Lockwasher: Stainless steel. Standoff: Nylon standard.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-5 through G-25. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.



#### Switch Function

- 7101 SP On-None-On
- 7103 SP On-Off-On
- 7105 SP Mom.-Off-Mom.
- 7107 SP On-Off-Mom.
- 7108 SP On-None-Mom.
- 7109 SP None-On-Mom.
- 7201 DP On-None-On
- 7203 DP On-Off-On
- 7205 DP Mom.-Off-Mom.
- 7207 DP On-Off-Mom.
- 7208 DP On-None-Mom.
- 7211 DP On-On-On
- 7213 DP On-On-Mom.
- 7215 DP Mom.-On-Mom.
- 7301 3P On-None-On
- 7303 3P On-Off-On
- 7401 4P On-None-On
- 7405 4P Mom.-Off-Mom.
- 7411 4P On-On-On

**Note:** UL models available, see pages H-5 and H-6.

#### Actuator

- J1 .531" long rocker
- J2 Lever
- J3 .906" long rocker
- J8 .699" long rocker
- J10 1.318" long rocker
- J11 Rocker with frame
- J15 Rocker, snap-in
- J16 Rocker with frame, snap-in
- J19 Rocker with frame
- J21 Lever with frame
- J25 Lever, snap-in
- J26 Lever with frame, snap-in
- J37 Rocker with frame
- J50 Rocker
- J51 Rocker with frame
- J52 Rocker with frame for LED, snap-in
- J60 Lever
- J61 Lever with frame, snap-in
- J62 Lever with frame for LED, snap-in
- J90 Lever
- J91 Lever with frame, snap-in

#### Terminations

- A Right angle, PC thru-hole
- AV2 Vertical right angle, PC thru-hole
- C PC Thru-hole
- Z Solder lug
- A3 Right angle, snap-in, PC thru-hole
- AV3 Vertical right angle, snap-in, PC thru-hole
- AW3 Right angle, extended, PC thru-hole
- V2 .555" high, V-bracket
- V3 .460" high, V-bracket
- V4 .630" high, V-bracket
- V5 Vertical right angle, PC thru-hole
- V6 .460" high, V-bracket
- V7 .630" high, V-bracket
- V8 .953" high, V-bracket
- V9 1.150" high, V-bracket
- V31 .460" high, V-bracket, snap-in
- V51 Vertical right angle, snap-in
- V61 .460" high, V-bracket, snap-in
- W .750" long, wire wrap
- W3 .425" long, wire wrap
- W5 1.305" long, wire wrap
- Z3 Quick connect

#### Contact Material

- B Gold
- P Gold, matte tin
- Q Silver
- S Silver, matte-tin
- G Gold over silver
- R Gold over silver, matte-tin

#### Seal

- E Epoxy
- I Epoxy potted base

#### Actuator Color

- 2 Black
- 1 White
- 3 Red

#### Frame Color

- 2 Black
- NONE No frame color required
- 1 White

#### Metal Frame Color

- (J11, J19, J21 & J37 Actuators)
- 2 Black
- 1 White

Rocker



G










Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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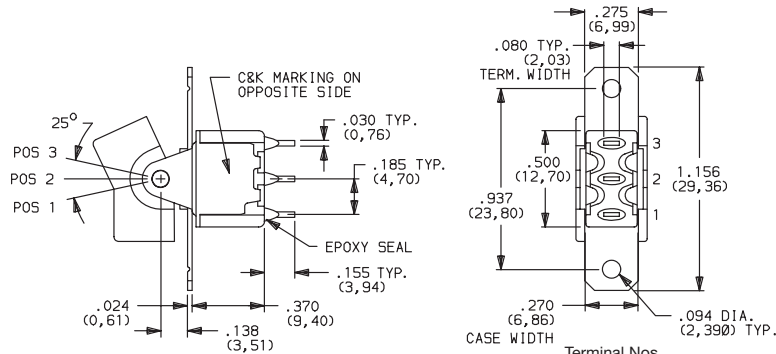
# 7000 Series Miniature Rocker & Lever Handle Switches

## SWITCH FUNCTION



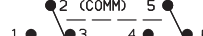
NO. POLES	MODEL NO.	UL** MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC	
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3		
										
			C&K marking on opposite side			C&K marking on opposite side				
SP	7101	U11	ON	NONE	ON	2-3	N/A	2-1		
	7103	U13	ON	OFF	ON		OPEN			
	7105	U15	MOM.	OFF	MOM.					
	7107	U17	ON	OFF	MOM.		N/A			
	7108	U18	ON	NONE	MOM.	N/A		2-1		
	7109	U19	NONE	ON	MOM.					

### SPDT

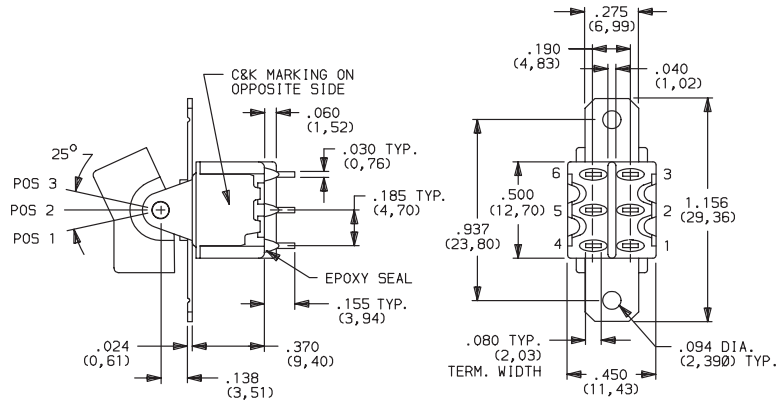


Part number shown: 7101J1ZQE2

Terminal Nos.  
For Reference Only

DP	7201	U21	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4			
	7203	U23	ON	OFF	ON		OPEN				
	7205	U25	MOM.	OFF	MOM.						
	7207	U27	ON	OFF	MOM.		N/A				
	7208	U28	ON	NONE	MOM.	2-3,5-4					
	7211*	U211*	ON	ON	ON	2-3,5-4					
	7213*	U213*	ON	ON	MOM.						
	7215*	U215*	MOM.	ON	MOM.						

### DPDT



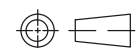
Part number shown: 7201J1ZQE2

Terminal Nos.  
For Reference Only

MOM. = Momentary

\*\* U11 through U413 model nos. with all options when ordered with G, Q, R or S contact material.

\* Wiring for 3-way switch, see Section N.







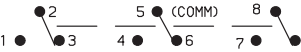


Third Angle  
Projection

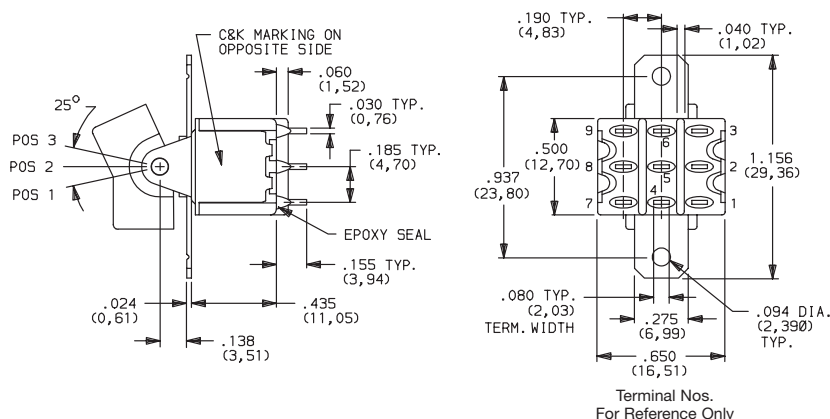
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change




## 7000 Series Miniature Rocker & Lever Handle Switches

NO. POLES	MODEL NO.	UL** MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
									
			C&K marking on opposite side			C&K marking on opposite side			
3P	7301	U31	ON	NONE	ON	2-3,5-6,8-9	N/A	2-1,5-4,8-7	 3PDT
	7303	U33	ON	OFF	ON		OPEN		

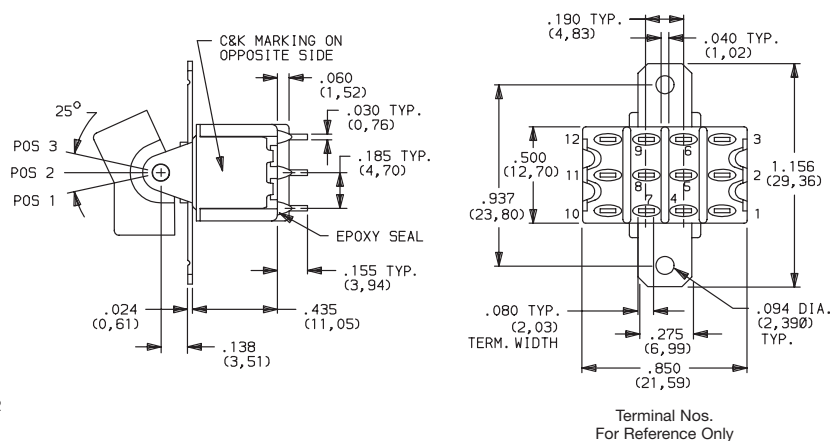
### 3PDT



Part number shown: 7301J1ZQE2

4P	7401	U41	ON	NONE	ON	2-3,5-6,8-9,11-12	N/A	2-1,5-4,8-7,11-10	
	7405	U45	MOM.	OFF	MOM.		OPEN		
	7411*	U411*	ON	ON	ON		2-3,5-4,8-9,11-10		

**4PDT**



Part number shown: 7401J1ZQE2

# Rocker

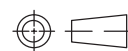
MOM. = Momentary

\*\* U11 through U411 model nos.  with all options when ordered with G, Q, R or S contact material.

\* Wiring for 3-way switch: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.



G



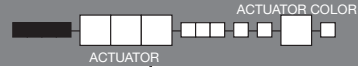
### Third Angle Projection

Dimensions are shown: Inches (mm)

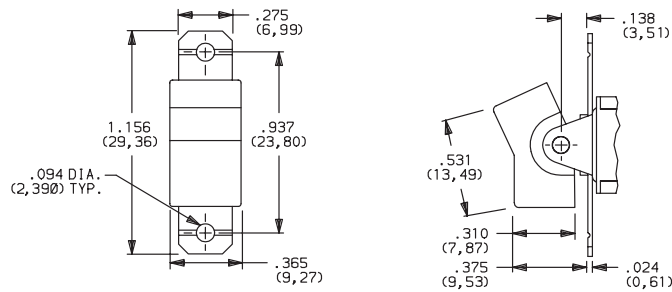
*Specifications and dimensions subject to change*

# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-PANEL REAR MOUNT



### J1 ROCKER



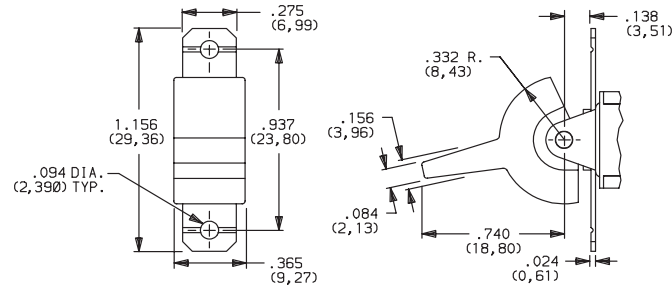
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Actuators available separately, see page G-22. Hardware is available see Technical Data section of this catalog.

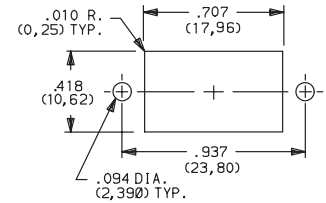
J1, J2, J3, J8 & J10 Actuators available with C, W-W5, Z or Z3 terminations.

### J2 LEVER

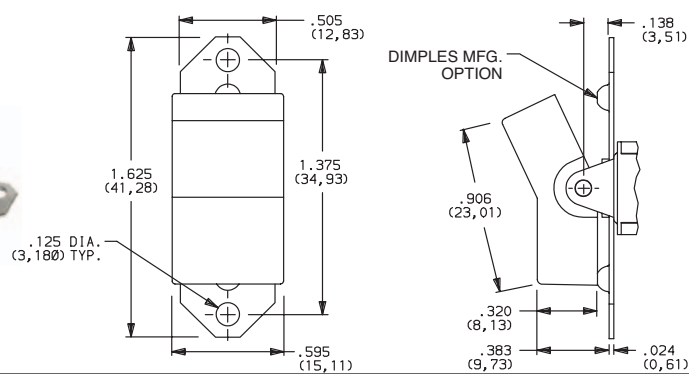


### PANEL MOUNTING

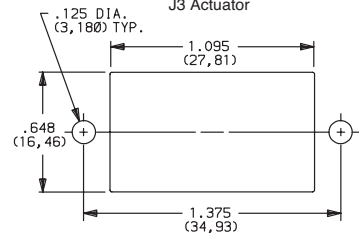
#### J1 & J2 Actuators



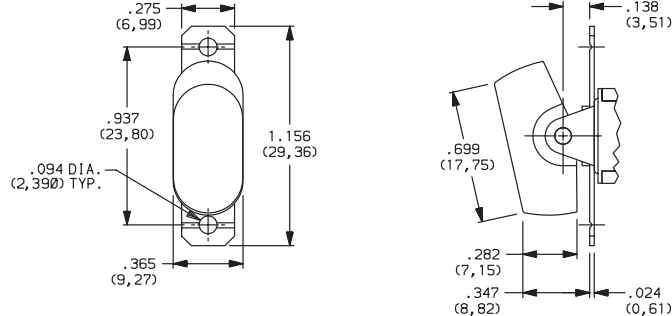
### J3 ROCKER



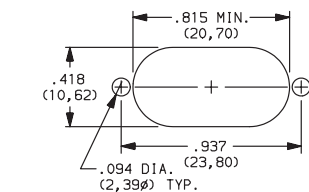
#### J3 Actuator



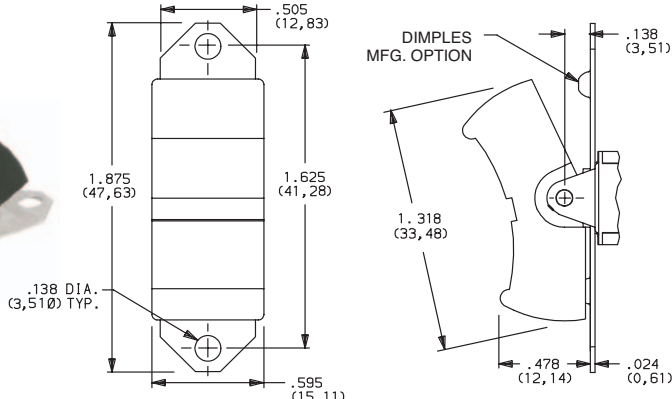
### J8 ROCKER



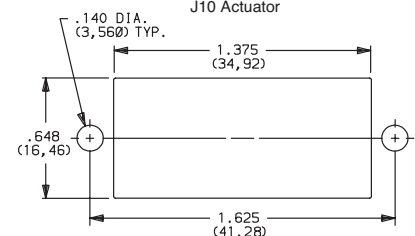
#### J8 Actuator



### J10 ROCKER



#### J10 Actuator



Dimensions are shown: Inches (mm)

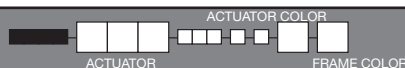
Specifications and dimensions subject to change

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# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-SNAP-IN FRONT MOUNT



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

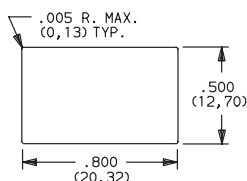
OPTION CODE	FRAME COLOR
2	BLACK
NONE	No Frame Color (J15 or J25 options)
1	WHITE

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

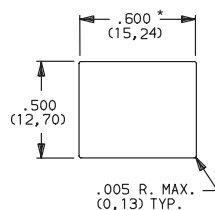
**NOTE:** Actuators & frames available separately, see pages G-22 and G-25. J15, J16, J25, J26, J50 & J51 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z and Z3 terminations.

### PANEL MOUNTING

J15, J16, J25 & J26 Actuators

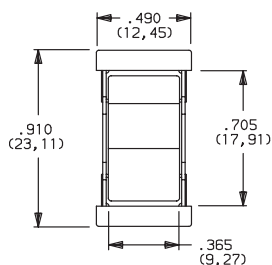


J50 Actuator

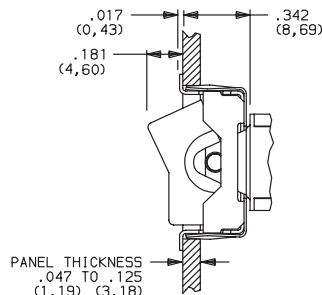


\* For J50: Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

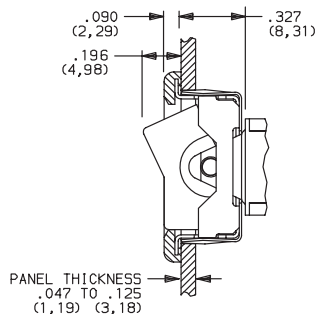
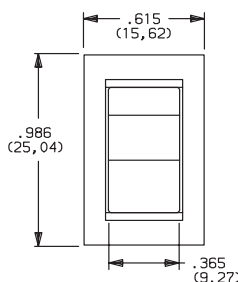
### J15 ROCKER, SNAP-IN



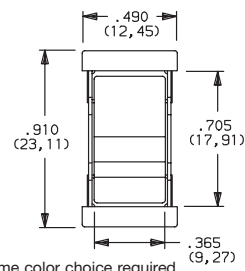
No frame color choice required



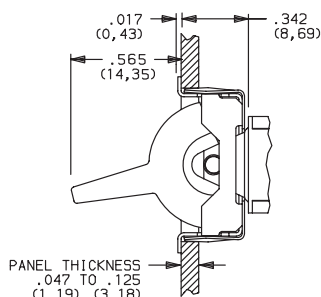
### J16 ROCKER WITH FRAME, SNAP-IN



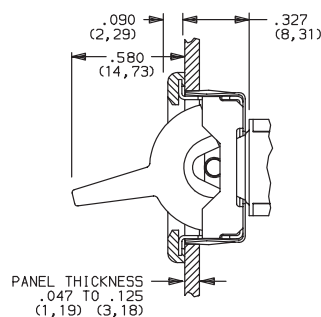
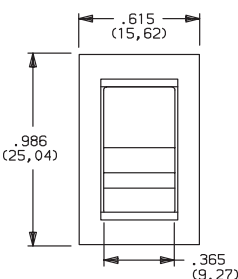
### J25 LEVER, SNAP-IN



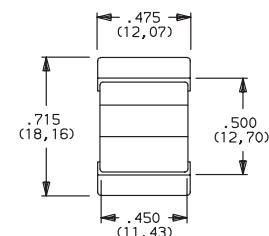
No frame color choice required



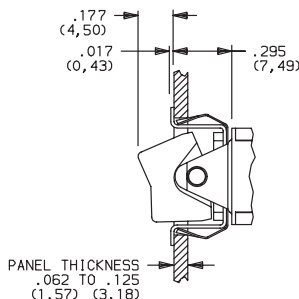
### J26 LEVER WITH FRAME, SNAP-IN



### J50 ROCKER, SNAP-IN



No frame color choice required



Third Angle Projection

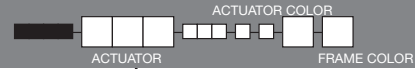
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



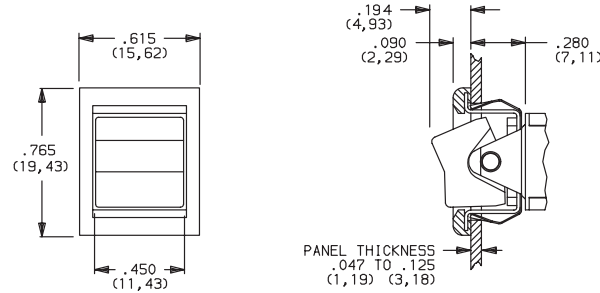


# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-SNAP-IN FRONT MOUNT

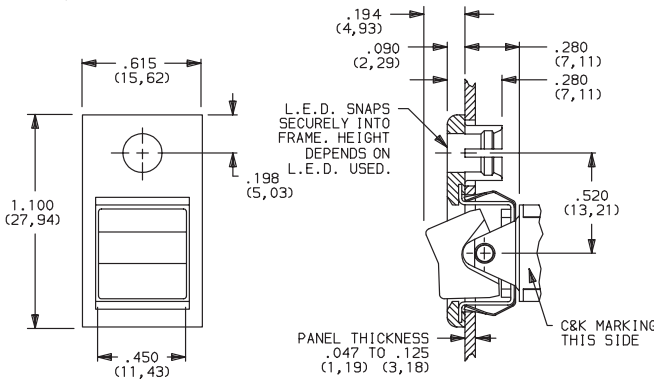


### J51 ROCKER WITH FRAME, SNAP-IN



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

### J52 ROCKER WITH FRAME FOR LED, SNAP-IN



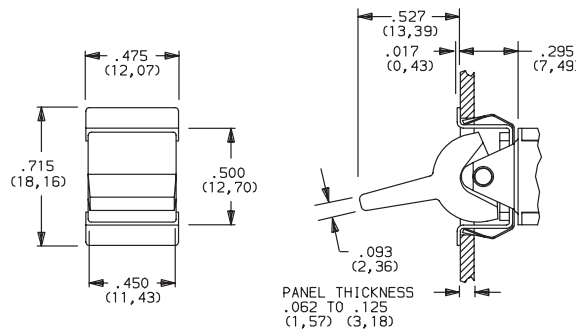
OPTION CODE	FRAME COLOR
2	BLACK
NONE	No Frame Color (J15 or J25 options)
1	WHITE

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Actuators & frames available separately, see pages G-22 and G-25. J51, J52, J60 & J61 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z and Z3 terminations.

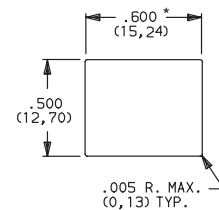
LED not included.  
For LED information, see page G-25.

### J60 LEVER, SNAP-IN

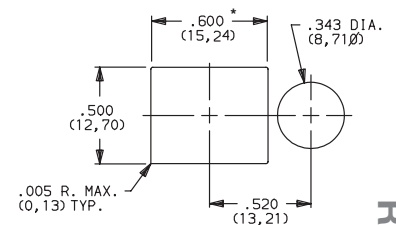


#### PANEL MOUNTING

J51, J60 & J61 Actuators

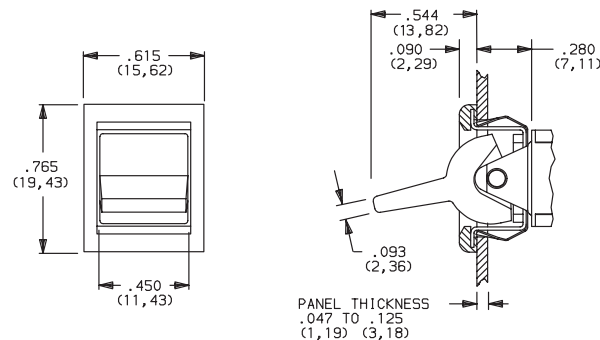


J52 Actuator



For J51, J52: Increase this dimension to .620/.625 (15,75/15,88) for .060/.125(1,52/3,18) thk. panels.

### J61 LEVER WITH FRAME, SNAP-IN





# 7000 Series

## Miniature Rocker & Lever Handle Switches

ACTUATOR-SNAP-IN FRONT MOUNT

ACTUATOR COLOR

ACTUATOR

FRAME COLOR

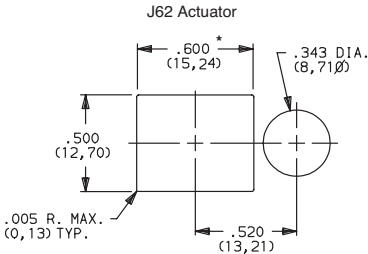
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

OPTION CODE	FRAME COLOR
2	BLACK
NONE	No Frame Color (J90 options)
1	WHITE

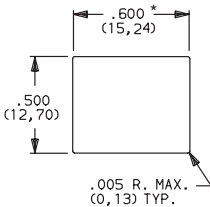
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Actuators & frames available separately, see pages G-22 and G-25. J62, J90 & J91 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z & Z3 terminations.

### PANEL MOUNTING

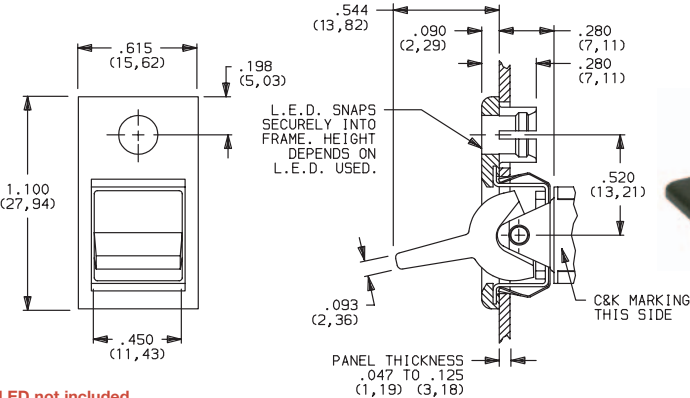


### J90, J91 & J93 Actuators



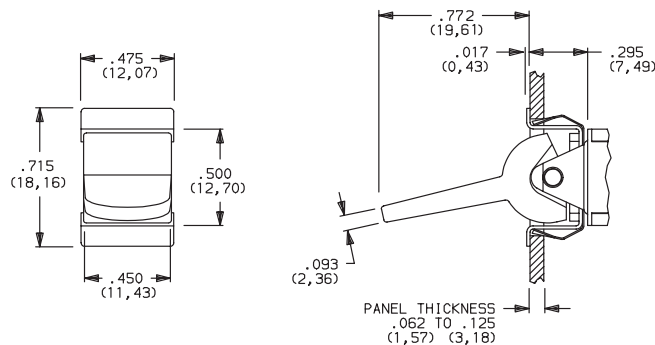
\* For J90: Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.  
For J91: Increase this dimension to .620/.625 (15,75/15,88) for .060/.125 (1,52/3,18) thk. panels.

### J62 LEVER WITH FRAME FOR LED, SNAP-IN



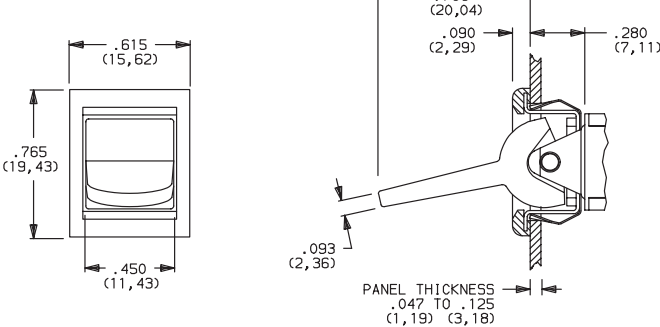
**LED not included.**  
For LED information, see page H-25.

### J90 LEVER, SNAP-IN



No frame color choice required.

### J91 LEVER WITH FRAME, SNAP-IN



Rocker



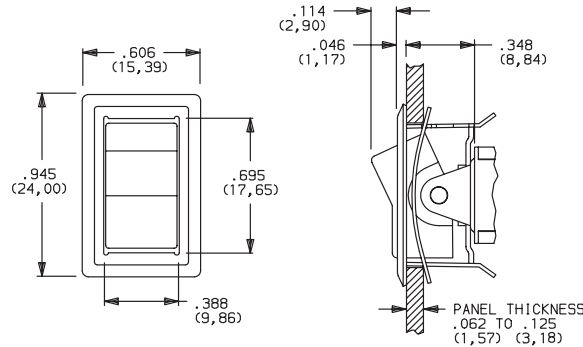
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-REAR MOUNT



### J11 ROCKER WITH FRAME



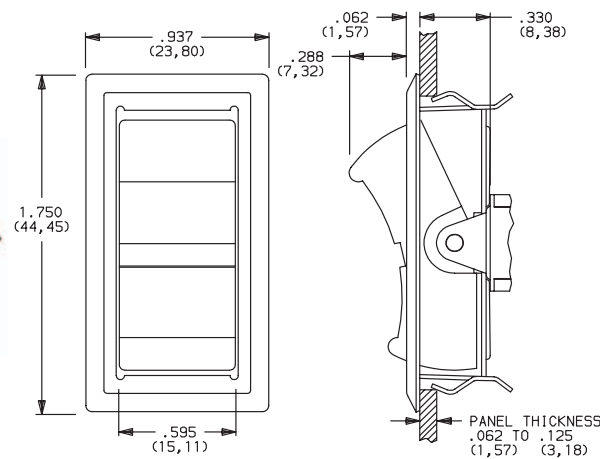
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

OPTION CODE	FRAME COLOR
2	BLACK
1	WHITE

Actuator finish: Matte. Frame finish: Gloss. Other colors, custom actuator markings and legends available, consult Customer Service Center.

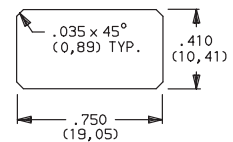
**NOTE:** Actuators & frames available separately, see pages G-22 and G-25. J11, J19, J21 & J37 Actuators available with C, W-W5, Z & Z3 terminations.

### J19 ROCKER WITH FRAME

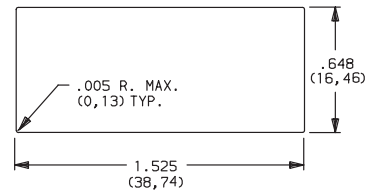


#### PANEL MOUNTING

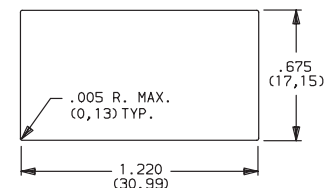
##### J11 & J21 Actuators



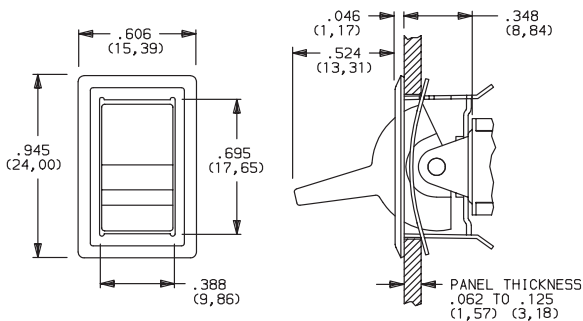
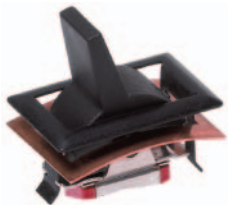
##### J19 Actuator



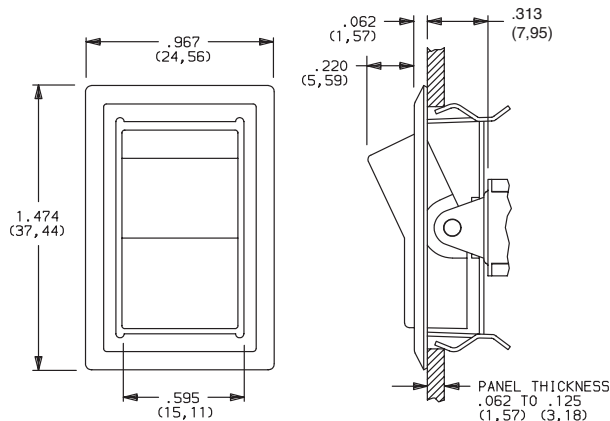
##### J37 Actuator



### J21 LEVER WITH FRAME



### J37 ROCKER WITH FRAME



Dimensions are shown: Inches (mm)

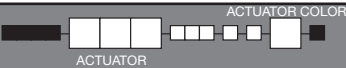
Specifications and dimensions subject to change



# 7000 Series

## Miniature Rocker & Lever Handle Switches

### ACTUATOR-PC MOUNT



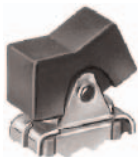
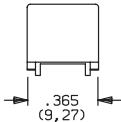
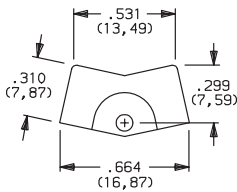
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

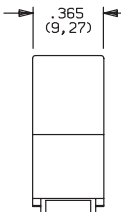
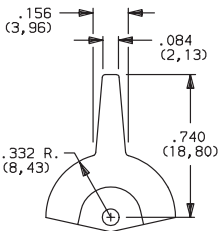
**NOTE:** Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

Actuators available separately, see page G-22. J1, J2 & J8 actuators available with A, A3, AV2, AV3, AW3 & V2 terminations. J3 actuators available with AV2, AV3 & V2-V61 terminations. J50 actuators available with A (DP, 3P models only), A3 (DP, 3P models only), AV2, AV3, AW3 (DP, 3P models only) & V2-V61 terminations.

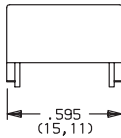
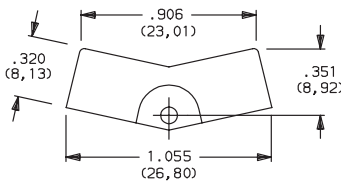
#### J1 ROCKER



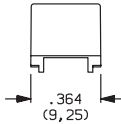
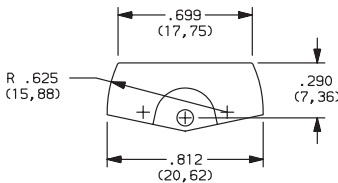
#### J2 LEVER



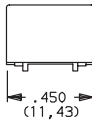
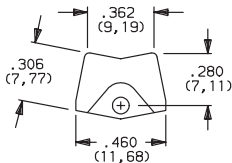
#### J3 ROCKER



#### J8 ROCKER



#### J50 ROCKER



Third Angle Projection

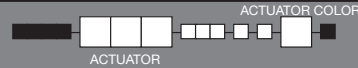
Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

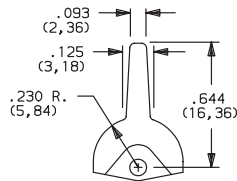


# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-PC MOUNT



### J60 LEVER

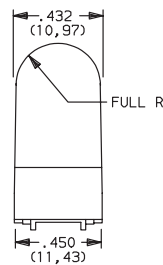
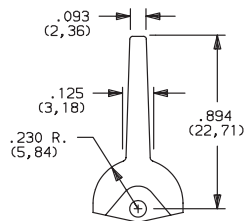


OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

### J90 LEVER

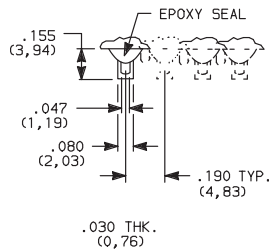


Actuators available separately, see page G-22. J60 & J90 actuators available with A (DP, 3P models only), A3 (DP, 3P models only), AV2, AV3, AW3 (DP, 3P models only) & V2-V61 terminations.

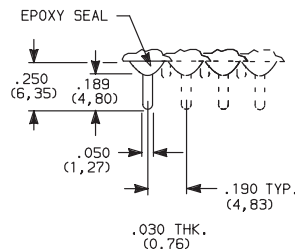
## TERMINATIONS



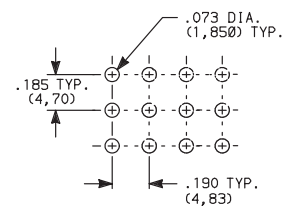
### Z SOLDER LUG



### C PC THRU-HOLE



### PC MOUNTING



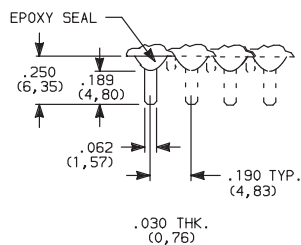
### SPDT thru 4PDT

Not available with P, R or S contact materials. Available actuators, see pages G-7 through G-13.

### SPDT thru 4PDT

**NOTE:** Available actuators, see pages G-7 through G-13.

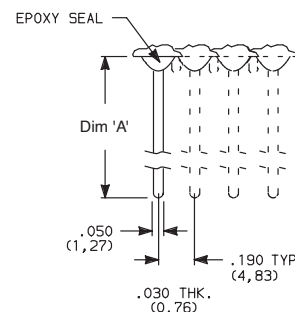
### Z3 QUICK CONNECT



Not available with P, R or S contact materials. Available actuators, see pages G-7 through G-13. Mating quick connector available; order part number 530100000, page G-23.

### SPDT thru 4PDT

### W, W3, W5 WIRE WRAP



OPTION CODE	DIM 'A'
W	.750 (19,05)
W3	.425 (10,80)
W5	1.305 (33,15)

### SPDT thru 4PDT

**NOTE:** Available actuators, see pages G-7 through G-13.



Third Angle Projection

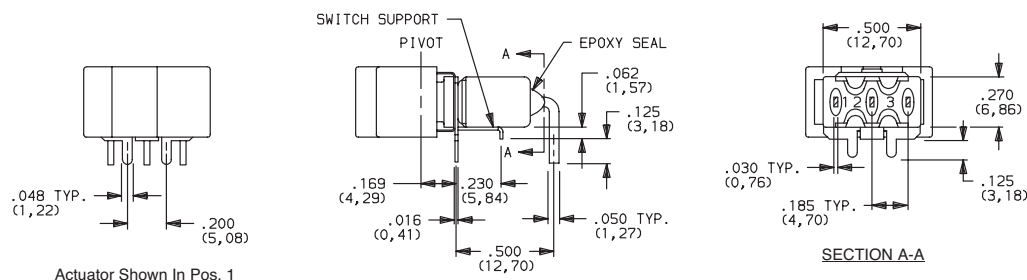
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



# 7000 Series Miniature Rocker & Lever Handle Switches

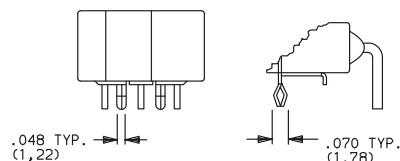
## TERMINATIONS

### A RIGHT ANGLE, PC THRU-HOLE

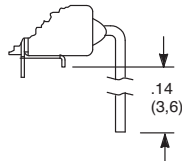


7101J1ABE2  
Horizontal Actuation  
SPDT

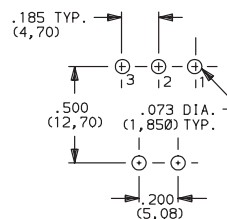
### A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



### AW3 RIGHT ANGLE, EXTENDED, PC THRU-HOLE



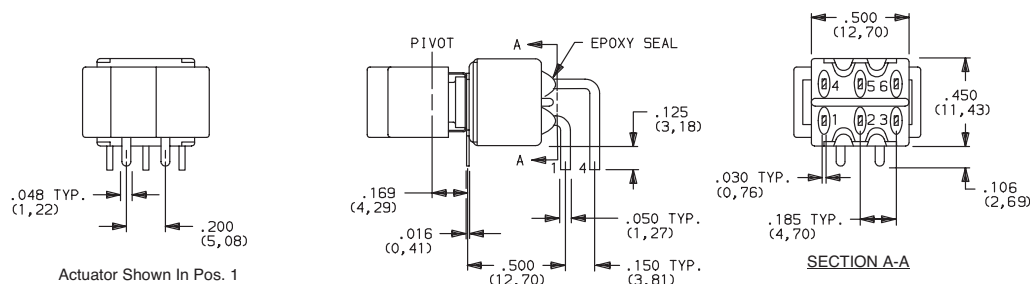
#### PC MOUNTING



Not available with I seal option. Available actuators, see pages G-7 and G-13.  
Terminal bend radii and lead-in manufacturing option.

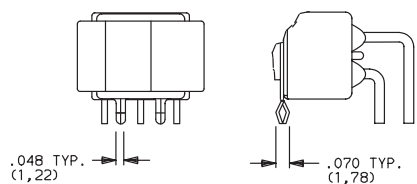
NOTE: PC pattern must clear switch support leg.

### A RIGHT ANGLE, PC THRU-HOLE

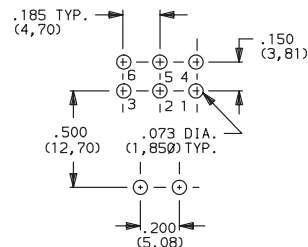


7201J1ABE2  
Horizontal Actuation  
DPDT

### A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



#### PC MOUNTING



Not available with I seal option. Available actuators, see pages G-7 and G-13.  
Terminal bend radii and lead-in manufacturing option.



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

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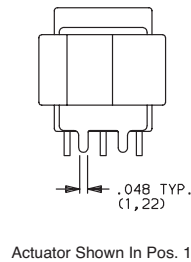
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

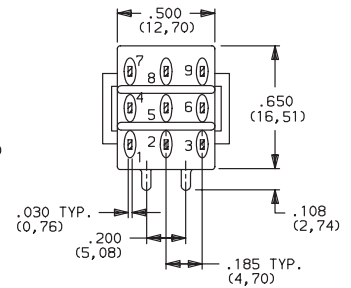
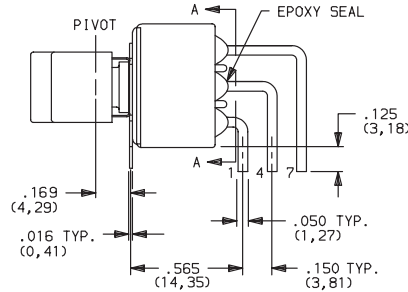
### A RIGHT ANGLE, PC THRU-HOLE



**7301J1ABE2**  
Horizontal Actuation  
**3PDT**

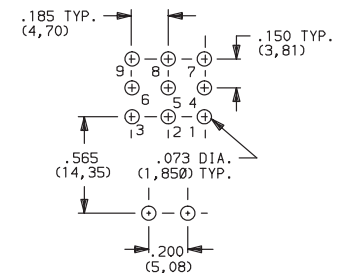


Actuator Shown In Pos. 1



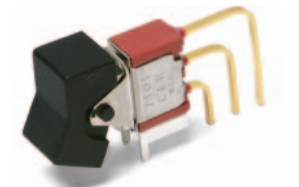
SECTION A-A

### PC MOUNTING

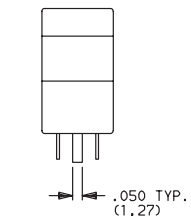


Not available with I seal option. Available actuators, see pages G-7 and G-13.  
Terminal bend radii and lead-in manufacturing option.

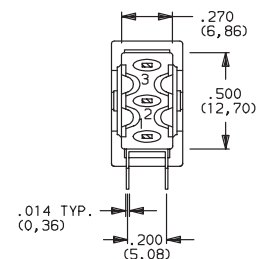
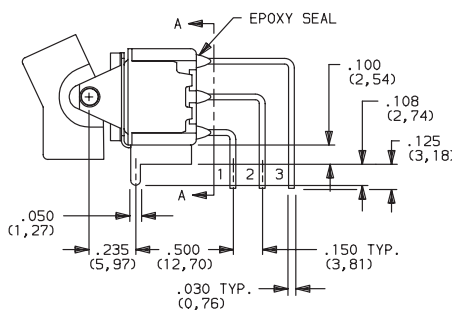
### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



**7101J1AV2BE2**  
Vertical Actuation  
**SPDT**

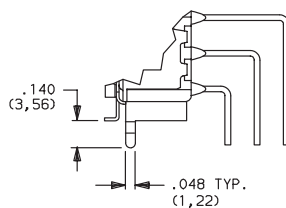
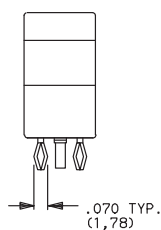


Actuator Shown In Pos. 1



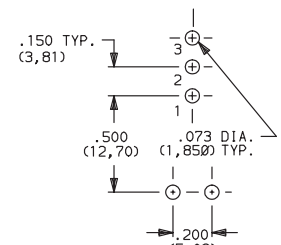
SECTION A-A

### AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



Not available with I seal option. Available actuators, see pages G-7 and G-13.  
Terminal bend radii and lead-in manufacturing option.

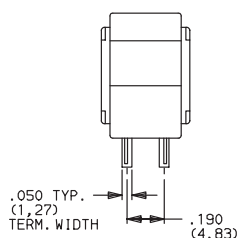
### PC MOUNTING



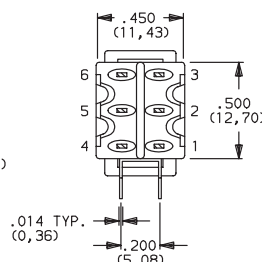
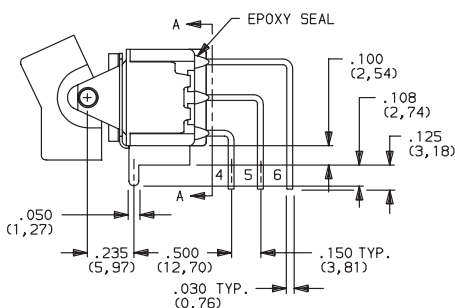
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

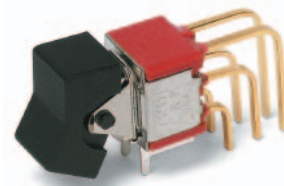
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



Actuator Shown In Pos. 1

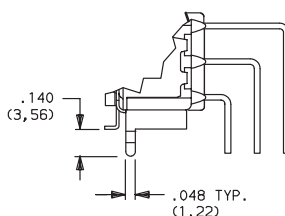
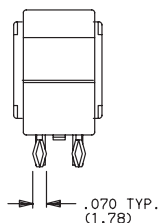


SECTION A-A

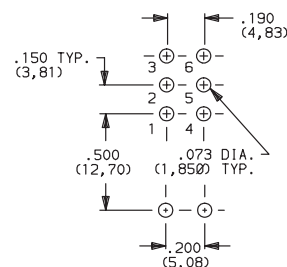


**7201J1AV2BE2**  
Vertical Actuation  
**DPDT**

**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH

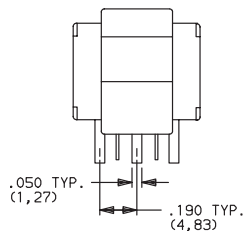


### PC MOUNTING

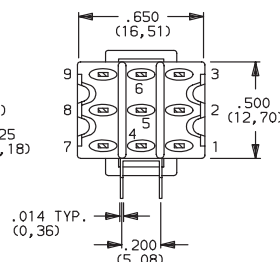
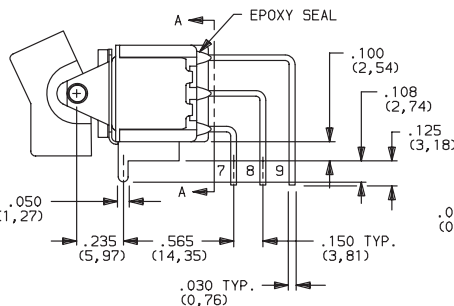


Not available with I seal option. Available actuators, see pages G-7 and G-13.  
Terminal bend radii and lead-in manufacturing option.

**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



Actuator Shown In Pos. 1

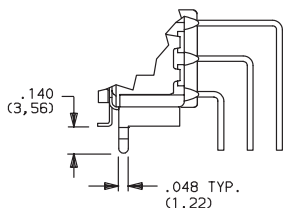
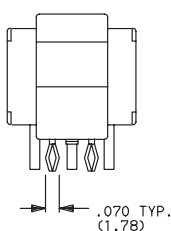


SECTION A-A

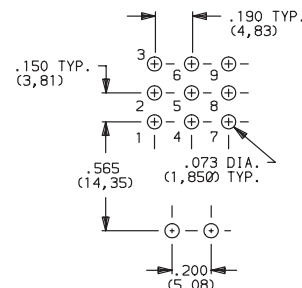


**7301J1AV2BE2**  
Vertical Actuation  
**3PDT**

**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH



### PC MOUNTING



Rocker

Not available with I seal option. Available actuators, see pages G-7 and G-13.  
Terminal bend radii and lead-in manufacturing option.



Third Angle  
Projection

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

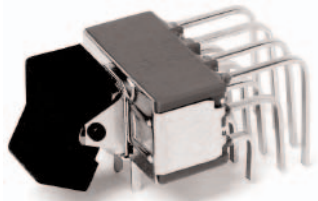
[www.ck-components.com](http://www.ck-components.com)



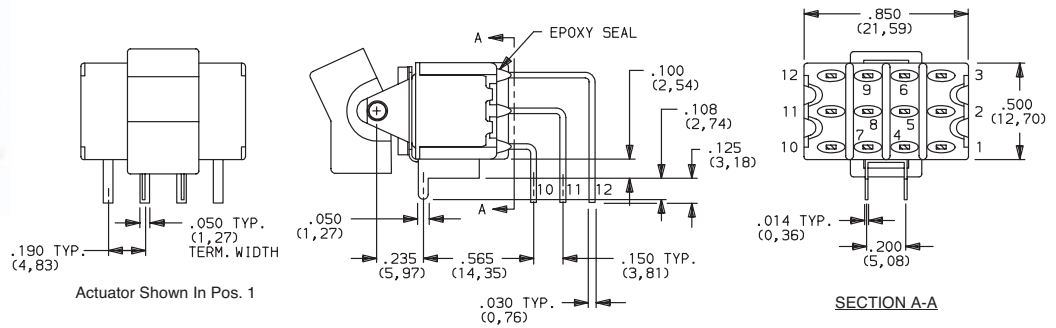
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

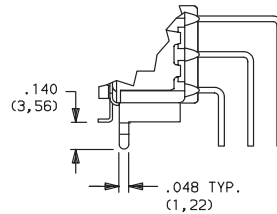
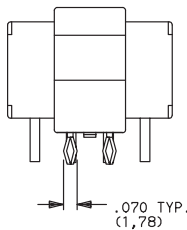
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



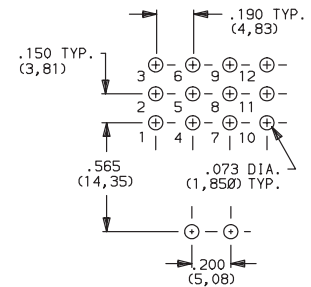
**7401J1AV2BE2**  
Vertical Actuation  
**4PDT**



**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH



### PC MOUNTING

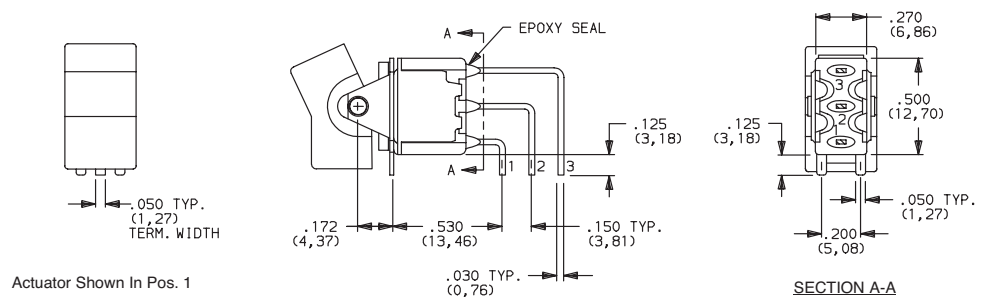


Not available with I seal option. Available actuators, see pages G-7 and G-13.  
Terminal bend radii and lead-in manufacturing option.

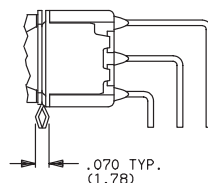
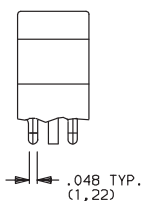
**V5** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



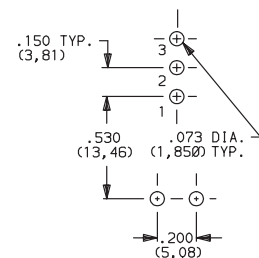
**7101J1V5BE2**  
Vertical Actuation  
**SPDT**



**V51** VERTICAL RIGHT ANGLE, SNAP-IN,  
PC THRU-HOLE, .150" PITCH



### PC MOUNTING



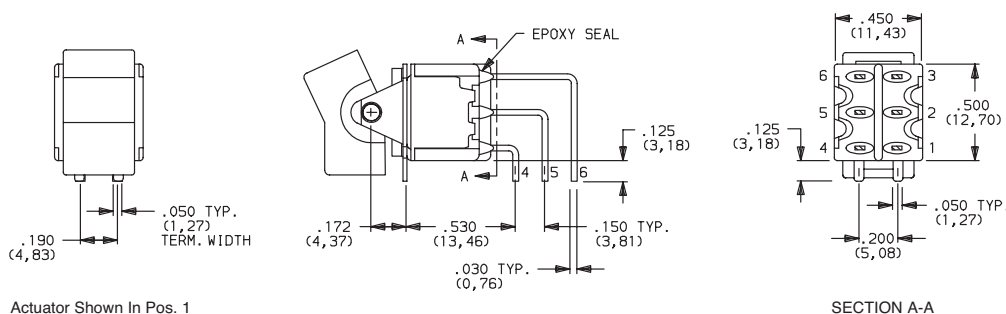
Not available with I seal option. Available actuators, see pages G-7 and G-13.  
Terminal bend radii and lead-in manufacturing option.



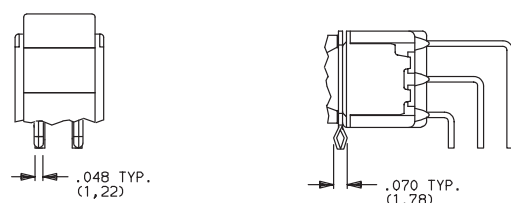
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

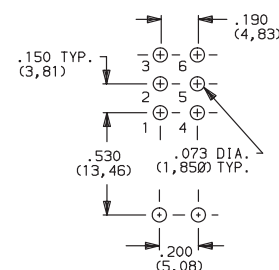
**V5** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



**V51** VERTICAL RIGHT ANGLE, SNAP-IN,  
PC THRU-HOLE, .150" PITCH



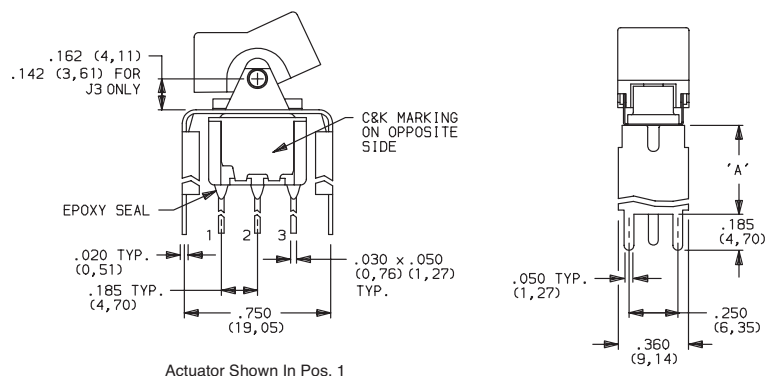
### PC MOUNTING



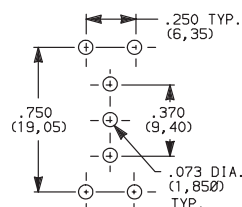
Not available with I seal option. Available actuators, see pages G-7 and G-13.  
Terminal bend radii and lead-in manufacturing option.

**V2, V6, V7, V8** VERTICAL MOUNT, V-BRACKET

**V61** VERTICAL MOUNT, V-BRACKET, SNAP-IN



### PC MOUNTING



7101J1\_BE2  
SPDT

OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V6, V61	.460 (11,68)
V7	.630 (16,00)
V8	.953 (24,21)

Not available with I seal option.  
Available actuators, see pages G-7 and G-13.



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

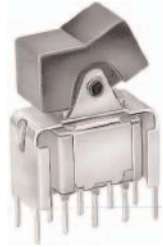
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# 7000 Series Miniature Rocker & Lever Handle Switches

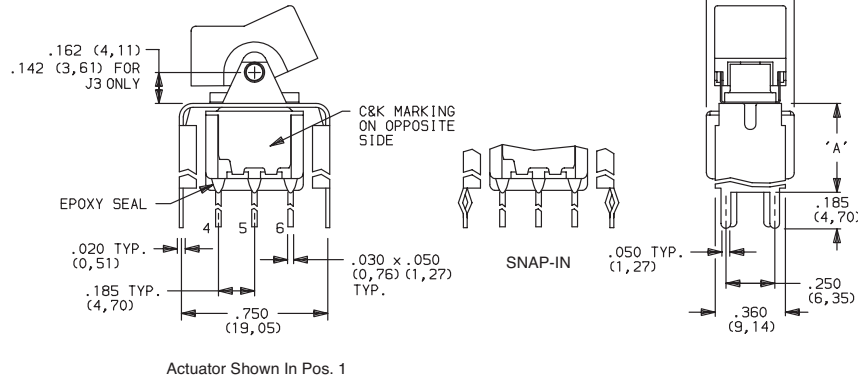
## TERMINATIONS

**V2, V6, V7, V8** VERTICAL MOUNT, V-BRACKET

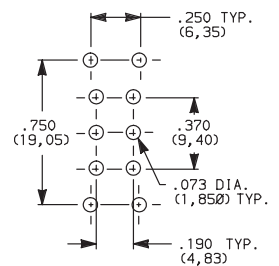
**V21, V61** VERTICAL MOUNT, V-BRACKET, SNAP-IN



7201J1\_BE2  
DPDT



### PC MOUNTING

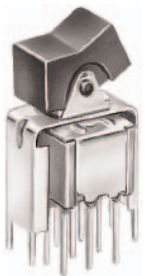


OPTION CODE	DIM 'A'
<b>V2, V21</b>	.555 (14,10)
<b>V6, V61</b>	.460 (11,68)
<b>V7</b>	.630 (16,00)
<b>V8</b>	.953 (24,21)

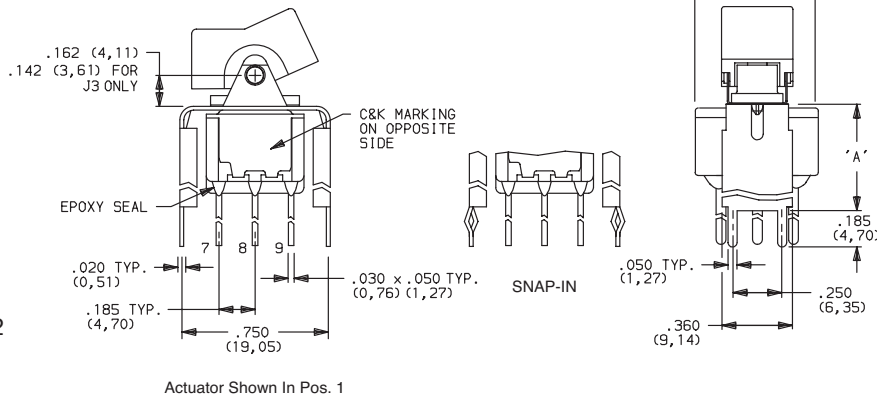
Not available with I seal option.  
Available actuators, see pages G-7 and G-13.

**V2, V7, V8** VERTICAL MOUNT, V-BRACKET

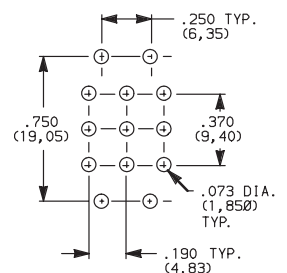
**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



7301J1\_BE2  
3PDT



### PC MOUNTING



OPTION CODE	DIM 'A'
<b>V2, V21</b>	.555 (14,10)
<b>V7</b>	.630 (16,00)
<b>V8</b>	.953 (24,21)

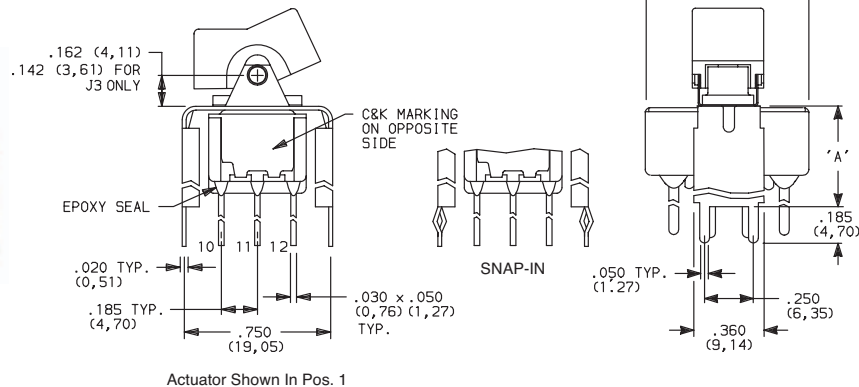
Not available with I seal option.  
Available actuators, see pages G-7 and G-13.

**V2, V7, V8** VERTICAL MOUNT, V-BRACKET

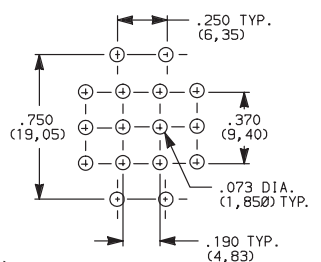
**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



7401J1\_BE2  
4PDT



### PC MOUNTING



OPTION CODE	DIM 'A'
<b>V2, V21</b>	.555 (14,10)
<b>V7</b>	.630 (16,00)
<b>V8</b>	.953 (24,21)

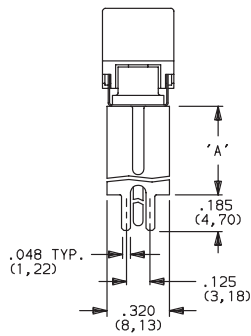
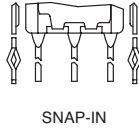
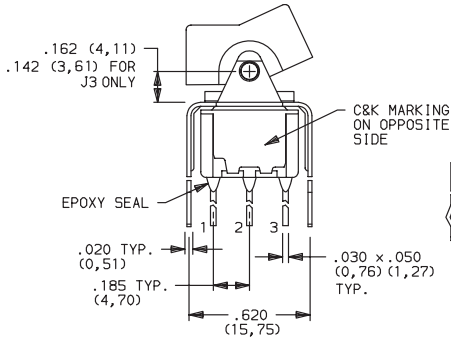
Not available with I seal option.  
Available actuators, see pages G-7 and G-13.



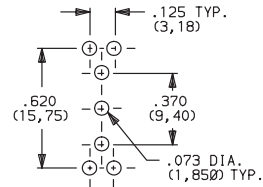
## 7000 Series Miniature Rocker & Lever Handle Switches

**V3, V4, V9** VERTICAL MOUNT, V-BRACKET

**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



## PC MOUNTING



7101J1\_\_BE2

**SPDT**

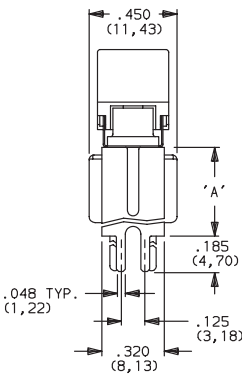
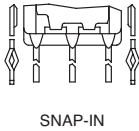
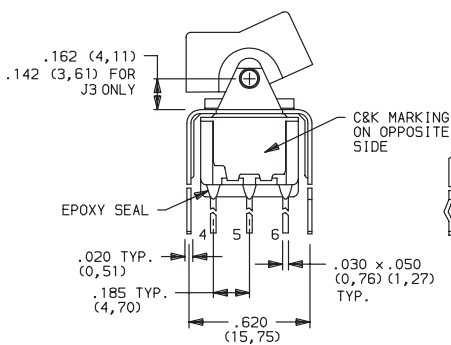
OPTION CODE	DIM 'A'
<b>V3, V31</b>	.460 (11,68)
<b>V4</b>	.630 (16,00)
<b>V9</b>	1.150 (29,21)

Actuator Shown In Pos. 1

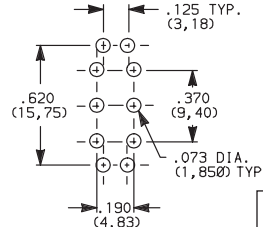
Not available with I seal option.  
Available actuators, see pages G-7 and G-13.

**V3, V4, V9** VERTICAL MOUNT, V-BRACKET

**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



## PC MOUNTING



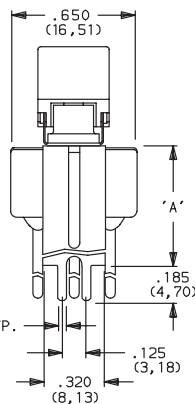
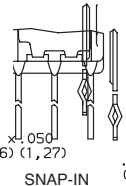
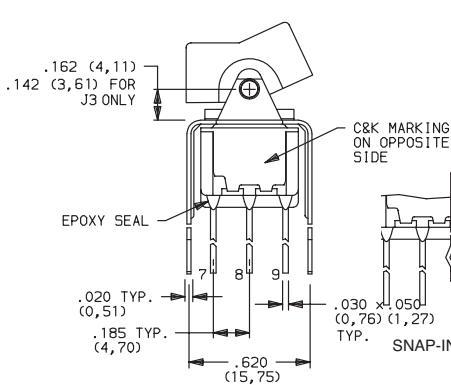
7201J1\_\_BE2  
DPDT

OPTION CODE	DIM 'A'
<b>V3, V31</b>	.460 (11,68)
<b>V4</b>	.630 (16,00)
<b>V9</b>	1.150 (29,21)

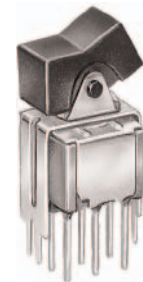
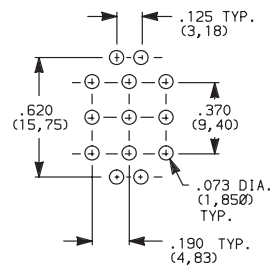
Actuator Shown In Pos. 1

Not available with I seal option.  
Available actuators, see pages G-7 and G-13.

**V4, V9** VERTICAL MOUNT, V-BRACKET



## PC MOUNTING

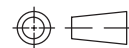


7301J1\_\_BE2  
3PDT

OPTION CODE	DIM 'A'
V4	.630 (16,00)
V9	1.150 (29,21)

Actuator Shown In Pos. 1

Not available with I seal option.  
Available actuators, see pages G-7 and G-13.



### Third Angle Projection

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change



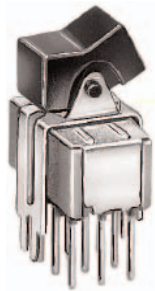
G



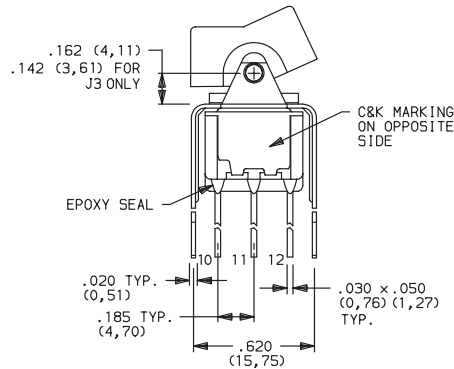
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

**V4, V9** VERTICAL MOUNT, V-BRACKET

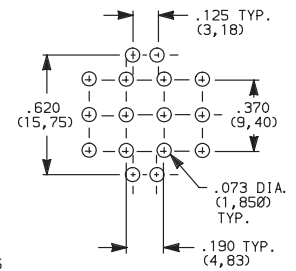


7401J1\_BE2  
4PDT



Actuator Shown In Pos. 1

### PC MOUNTING



OPTION CODE	DIM 'A'
<b>V4</b>	.630 (16,00)
<b>V9</b>	1.150 (29,21)

Not available with I seal option.  
Available actuators, see pages G-7 and G-13.

## CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
<b>B</b>	GOLD <sup>1</sup>	GOLD <sup>1</sup>	LOW LEVEL/ DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
<b>P</b>		MATTE-TIN <sup>6</sup>		
<b>Q</b>	SILVER <sup>4,5</sup>	SILVER <sup>5</sup>	POWER	5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC.
<b>S</b>		MATTE-TIN <sup>6</sup>		
<b>G</b>	GOLD OVER SILVER <sup>2,3</sup>	GOLD <sup>3</sup>	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 VA MAX @ 20 V AC OR DC MAX OR 5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC.
<b>R</b>		MATTE-TIN <sup>6</sup>		

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- END CONTACTS: Coin silver, with gold plate over nickel plate.
- CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- END CONTACTS: Coin silver, silver plated.
- CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- TERMINALS: Copper alloy, with matte-tin over nickel plate.

U11-U415 model numbers **C&K** **US** with all options when ordered with G, Q, S & R contact material.

B contact material standard with all terminations except C, Z & Z3.

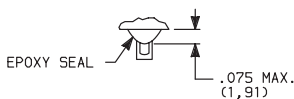
Q contact material standard with C, Z & Z3 terminations.

**P, S & R, contact materials not available with Z & Z3 terminations.**

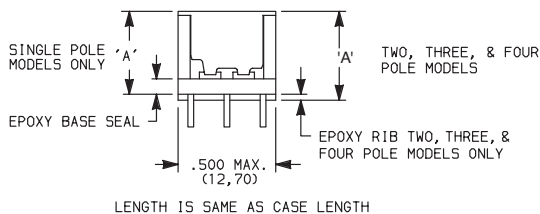
**NOTE:** Any models supplied with Q, B, G S, P & R contact material are RoHS compliant.

## SEAL

**E** EPOXY SEAL



**I** EPOXY POTTED BASE



Available with C, W through W5, Z & Z3 terminations.

NO. POLES	DIM 'A'
<b>SP</b>	.410 (10,41)
<b>DP</b>	.440 (11,18)
<b>3P</b>	.505 (12,83)
<b>4P</b>	.505 (12,83)



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

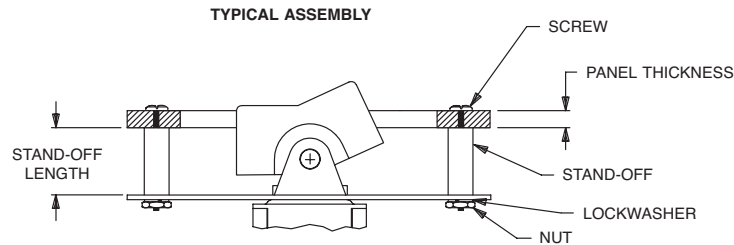


# 7000 Series

## Miniature Rocker & Lever Handle Switches

### AVAILABLE HARDWARE

Panel mounting hardware for rocker and lever handle switches is available separately. Mounting hardware consists of two screws, two nuts, two standoffs and two lockwashers per switch, and is available for panel thicknesses of 1/16, 3/32 and 1/8 inch. See part numbers below.



#### J1 & J2 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
761103000	1/8 IN. (3,18)	.233 (5,92)

#### J3 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
770603000	1/8 IN. (3,18)	.233 (5,92)

#### J10 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
770703000	1/8 IN. (3,18)	.233 (5,92)

#### MATERIAL

Screws, nuts, lockwashers: Stainless steel. Standoffs: Nylon, standard.

#### J1, J11, J15 & J16 Actuators



PART NO.  
776A01000 WHITE  
776A02263 BLACK  
776A03000 RED

Material: Nylon  
Finish: Matte

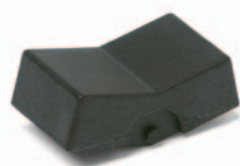
#### J2, J21, J25 & J26 Actuators



PART NO.  
426D01000 WHITE  
426D02263 BLACK  
426D03000 RED

Material: Nylon  
Finish: Matte

#### J3 & J37 Actuators



PART NO.  
431D01000 WHITE  
431D02263 BLACK  
431D03000 RED

Material: Nylon  
Finish: Matte

#### J50, J51 & J52 Actuators



PART NO.  
775A01000 WHITE  
775A02263 BLACK  
775A03000 RED

Material: Nylon  
Finish: Matte

#### J60, J61 & J62 Actuators



PART NO.  
598101000 WHITE  
613802263 BLACK  
598103000 RED

Material: Nylon  
Finish: Matte

#### J8 Actuator



PART NO.  
488701000 WHITE  
488702263 BLACK  
488703000 RED

Material: Nylon  
Finish: Matte

Rocker



G

C&K

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# 7000 Series Miniature Rocker & Lever Handle Switches

## AVAILABLE HARDWARE

<p>J90 &amp; J91 Actuators</p>  <p>PART NO.  <b>598001000</b> WHITE  <b>598002263</b> BLACK  <b>598003000</b> RED  Material: Nylon  Finish: Matte</p>	<p>J10 &amp; J19 Actuators</p>  <p>PART NO.  <b>769501000</b> WHITE  <b>769502263</b> BLACK  <b>769503000</b> RED  Material: Nylon  Finish: Matte</p>	<p>Fits Z3 Termination female connector</p>  <p>PART NO.  <b>530100000</b>  Available in loose pieces.</p>
<p>Frame for J11 &amp; J21 Actuators</p>  <p>PART NO.  <b>764500746</b> BLACK ENAMEL  <b>764500747</b> WHITE ENAMEL  <b>764601106</b> RETAINING SPRING  Material: Spring Steel</p>	<p>Frame for J16 &amp; J26 Actuators</p>  <p>PART NO.  <b>459101000</b> WHITE  <b>459102000</b> BLACK  <b>459103000</b> RED  Material: Nylon  Finish: Matte</p>	<p>Frame for J51, J61 &amp; J91 Actuators</p>  <p>PART NO.  <b>615601000</b> WHITE  <b>615602263</b> BLACK  <b>615603000</b> RED  Material: Nylon  Finish: Matte</p>
<p>Frame for J19 Actuator</p>  <p>PART NO.  <b>781000746</b> BLACK ENAMEL  <b>781000747</b> WHITE ENAMEL  Material: Spring Steel</p>	<p>Frame for J37 Actuator</p>  <p>PART NO.  <b>445400746</b> BLACK ENAMEL  <b>445400747</b> WHITE ENAMEL  Material: Spring Steel</p>	<p>Frame for J52 &amp; J62 Actuators</p>  <p>PART NO.  <b>613301000</b> WHITE  <b>613302263</b> BLACK  <b>613303000</b> RED  Material: Nylon  Finish: Matte</p>





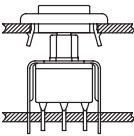
# 7000 Series

## Miniature Rocker & Lever Handle Switches

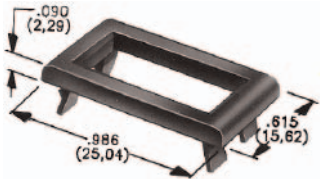
### AVAILABLE HARDWARE

Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.

TYPICAL APPLICATION

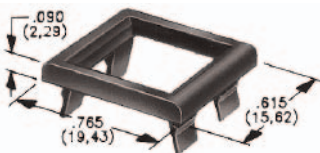


J1 & J2 Actuators



.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO.	PART NO.	PART NO.	PART NO.
452902263	452702263	452802263	452602263 BLACK

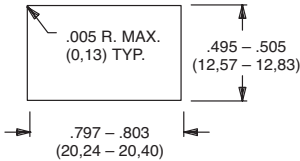
J50, J60 & J90 Actuators



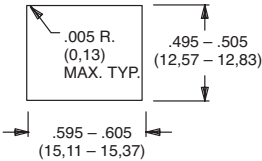
.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO.	PART NO.	PART NO.	PART NO.
432502263	432602263	432702263	432802263 BLACK

### PANEL MOUNTING

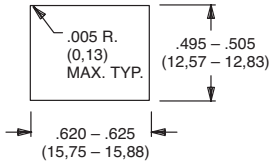
For part numbers  
4529xxxxx, 4527xxxxx,  
4528xxxxx, 4526xxxxx



For part numbers  
4325xxxxx, 4326xxxxx



For part numbers  
4327xxxxx, 4328xxxxx



Rocker



G

C&K



Third Angle  
Projection

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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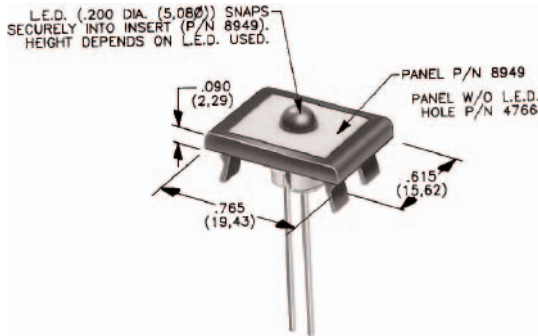
# 7000 Series Miniature Rocker & Lever Handle Switches

## AVAILABLE HARDWARE

### Panel Inserts

Will fit Separate Snap-in frames for J50, J60 & J90 actuators

Above frames (part nos. 432XXXXXX) are also available with insert which accepts LED for indicator light assembly. Order insert separately from frame. Blank insert panel (without hole for LED) also available. **LED not included.**



PANEL INSERT  
WITH HOLE FOR LED

PART NO.  
**894902000**

BLANK PANEL INSERT  
WITHOUT HOLE FOR LED

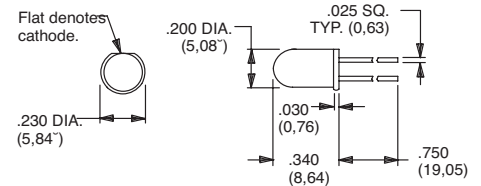
PART NO.  
**476602000** BLACK

**NOTE:** Special colors, custom markings available, consult Customer Service Center.

### LED INFORMATION

**Process Information:** Soldering to LED leads must be completed within 5 seconds at 500° F (260°C) maximum.

LEDs are not supplied with J52, J62 options. LED snaps into switch frame surrounding actuator and is wired externally.



Suggested LED for J52 & J62 options.  
Dimensions for reference only.



# E Series

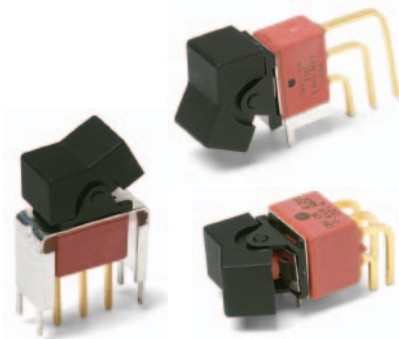
## Sealed Miniature Rocker and Lever Handle Switches

### Features/Benefits

- Sealed against solder and cleaning process contaminants
- ESD Resistance—all actuator options
- Rocker, case & bushing UL 94V-0
- RoHS compliant

### Typical Applications

- Telecommunications
- Instrumentation
- Computers & peripherals



### Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material (E1XX & E2XX Models): 7.5 AMPS @125 V AC or 28 V DC; 3 AMPS @ 250 V AC. (E3XX Models): 5 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC. See page G-37 for additional ratings.

ELECTRICAL LIFE: E1XX and E2XX models: 40,000 make-and-break cycles at full load. E3XX models: 30,000 cycles.

CONTACT RESISTANCE: Below 10 m  $\Omega$  typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10<sup>9</sup>  $\Omega$  min.

ELECTROSTATIC DISCHARGE (ESD) OPTION: All actuator options: 15,000 V DC max. @ sea level, actuator to terminals.

DIELECTRIC STRENGTH: 1000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

### Materials

CASE & BUSHING: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0).

ACTUATOR: Nylon, black standard, internal o-ring seal standard with all actuators.

FRAME: Spring steel, black standard.

SWITCH SUPPORT: Brass or steel, matte-tin plated.

ACTUATOR PIVOT & MOUNTING BRACKET: Nylon.

ACTUATOR PIVOT RETAINER: Stainless steel.

CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-37 for additional contact materials.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut, Screw & Lockwasher: Stainless steel. Standoff: Nylon standard, aluminum available, consult Customer Service Center.

**NOTE:** Any models supplied with Q, B, G, S, P & R contact material are RoHS compliant.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-27 through G-39. For additional options not shown in catalog, consult Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.



#### Switch Function

- E101** SP On-None-On
- E103** SP On-Off-On
- E105** SP Mom.-Off-Mom.
- E107** SP On-Off-Mom.
- E108** SP On-None-Mom.
- E201** DP On-None-On
- E203** DP On-Off-On
- E205** DP Mom.-Off-Mom.
- E207** DP On-Off-Mom.
- E208** DP On-None-Mom.
- E211** DP On-On-On
- E213** DP On-On-Mom.
- E215** DP Mom.-On-Mom.
- E301** 3P On-None-On

#### Actuator

- J1** .531 long rocker
- J2** Lever
- J3** .906" long rocker
- J11** Rocker with frame
- J21** Lever with frame
- J50** .362" long rocker
- J60** Lever
- J90** Lever

#### Terminations

- A** Right angle, PC thru-hole
- AV2** Vertical right angle, PC thru-hole
- C** PC Thru-hole
- Z** Solder lug
- A3** Right angle, snap-in, PC thru-hole
- AV3** Vertical right angle, snap-in, PC thru-hole
- V3** .460" high, V-bracket
- V4** .630" high, V-bracket
- V5** Vertical right angle, PC thru-hole
- V6** .460" high, V-bracket
- V7** .630" high, V-bracket
- V8** .953" high, V-bracket
- V21** .555" high, V-bracket, snap-in
- V31** .460" high, V-bracket, snap-in

#### Contact Material

- B** Gold
- P** Gold, matte tin
- Q** Silver
- S** Silver, matte-tin
- G** Gold over silver
- R** Gold over silver, matte-tin

#### Seal

- E** Epoxy

#### Actuator Color

- 2** Black
- 3** Red

#### Frame Color

- 2** Black
- NONE** No frame color required

#### Metal Frame Color

- (J11, J21 Actuators)
- 2** Black

Rocker



G







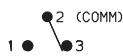


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# E Series

## Sealed Miniature Rocker and Lever Handle Switches

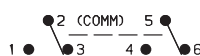
SWITCH FUNCTION 

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
								
		C&K marking on opposite side			C&K marking on opposite side			
SP	E101	ON	NONE	ON	2-3	N/A	2-1	
	E103	ON	OFF	ON				
	E105	MOM.	OFF	MOM.				
	E107	ON	OFF	MOM.				
	E108	ON	NONE	MOM.		N/A		
SPDT								

**SPDT**

Part number shown: E101J1ZBE2


Terminal Nos.  
For Reference Only

DP	E201	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	E203	ON	OFF	ON		OPEN		
	E205	MOM.	OFF	MOM.				
	E207	ON	OFF	MOM.				
	E208	ON	NONE	MOM.		N/A		
	E211**	ON	ON	ON		2-3,5-4		
	E213**	ON	ON	MOM.				
	E215**	MOM.	ON	MOM.				
DPDT								

**DPDT**

Part number shown: E201J1ZBE2

Terminal Nos.  
For Reference Only

MOM. = Momentary  
 All models  with all options when ordered with G, Q, R or S contact material.

\*\* Wiring for 3-way switch, Hardware available separately, see Technical Data section of this catalog.



Dimensions are shown: Inches (mm)  
 Specifications and dimensions subject to change

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# E Series

## Sealed Miniature Rocker and Lever Handle Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
		C&K marking on opposite side			C&K marking on opposite side			
3P	E301	ON	NONE	ON	2-3,5-6,8-9	N/A	2-1,5-4,8-7	<p>3PDT</p>
<div> <div>3PDT</div> <div> </div> <div> </div> </div> <p>Part number shown: E301J1ZBE2</p>								

MOM. = Momentary

\*\* Wiring for 3-way switch, see Technical Data section of this catalog.

All models with all options when ordered with G, Q, R and S contact material.

ACTUATOR-PANEL REAR MOUNT

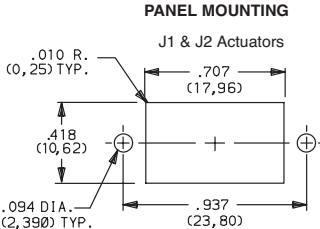
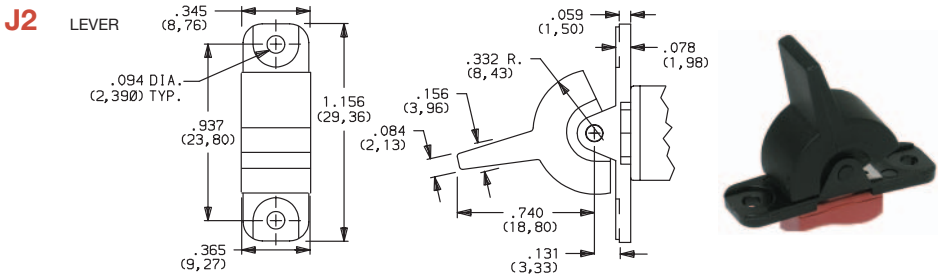
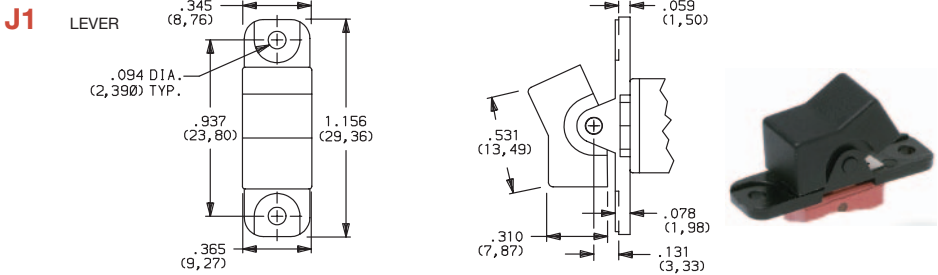
ACTUATOR COLOR

ACTUATOR

OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on switches with panel mounting bracket. Internal o-ring actuator seal standard. Actuators available separately, see page G-37. Hardware available separately, see Technical Data section of this catalog. J1, J2 actuators available with C, Z or Z3 terminations.



Rocker

## ACTUATOR-REAR MOUNT



# E Series

## Sealed Miniature Rocker and Lever Handle Switches

ACTUATOR-PC MOUNT

ACTUATOR COLOR

OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on switches with panel mounting bracket. Internal o-ring actuator seal standard. Actuators available separately, see page G-37. Hardware available separately, see Technical Data section of this catalog.

J3 actuators available with AV2, AV3 & V2-V61 terminations. Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

J50, J60 & J90 actuators available with A, AV2, AV3, V2 – V61 terminations.

J3

ROCKER

J50

ROCKER

J60

LEVER

J90

LEVER

TERMINATIONS

Z

SOLDER LUG

SPDT thru 3PDT

Not available with P, S, & R contact materials.

Available actuators, see page G-37.

C

PC THRU-HOLE

SPDT thru 3PDT

PC MOUNTING

SPDT thru 3PDT

Not available with P, S, & R contact materials.  
Available actuators, see page G-37.

SPDT thru 3PDT



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

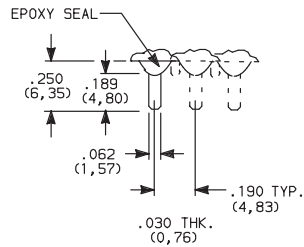
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# E Series Sealed Miniature Rocker and Lever Handle Switches

## TERMINATIONS

### Z3 QUICK CONNECT



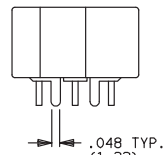
Not available with P, S, & R contact materials. Available actuators, see pages G-28 thru G-30. Mating quick connector available; order part number 530100000, page G-38.

### SPDT thru 3PDT

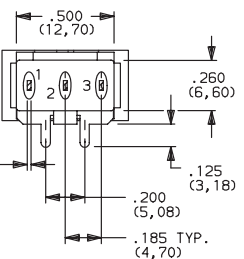
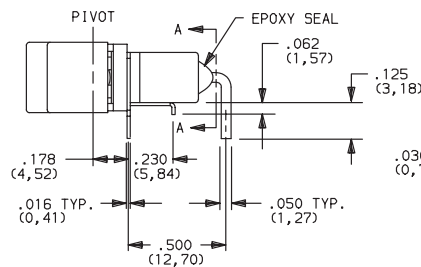
#### A RIGHT ANGLE, PC THRU-HOLE



**E101J1ABE2**  
Horizontal Actuation  
**SPDT**

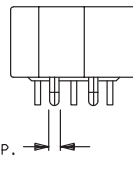


Actuator Shown In Pos. 1

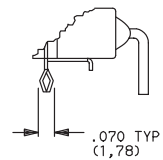


SECTION A-A

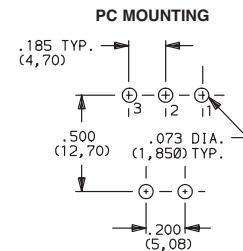
#### A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



.050 TYP.  
(1,27)



.070 TYP.  
(1,78)



PC MOUNTING

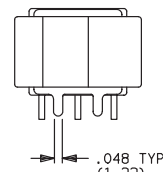
**NOTE:** Not available with J3, J50, J60 and J90 actuators. Available actuators, see pages G-28 thru G-30. Terminal bend radii and lead-in manufacturing option.

**NOTE:** PC mounting pattern must clear switch support leg.

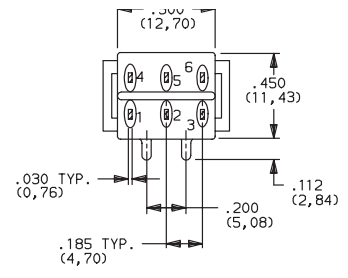
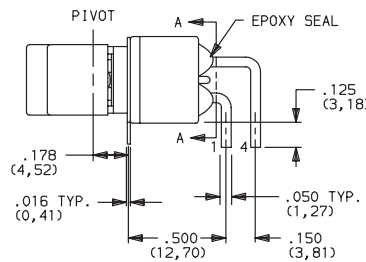
#### A RIGHT ANGLE, PC THRU-HOLE



**E201J1ABE2**  
Horizontal Actuation  
**DPDT**

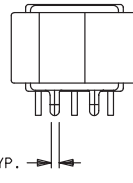


Actuator Shown In Pos. 1

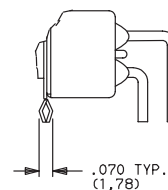


SECTION A-A

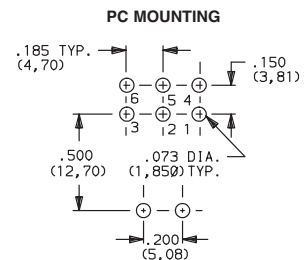
#### A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



.048 TYP.  
(1,22)



.070 TYP.  
(1,78)



PC MOUNTING

**NOTE:** Not available with J3 actuator. Available actuators, see pages G-28 and G-30. Terminal bend radii and lead-in manufacturing option.



Third Angle  
Projection

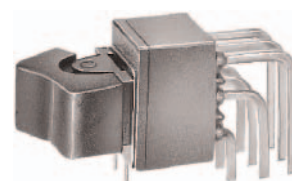
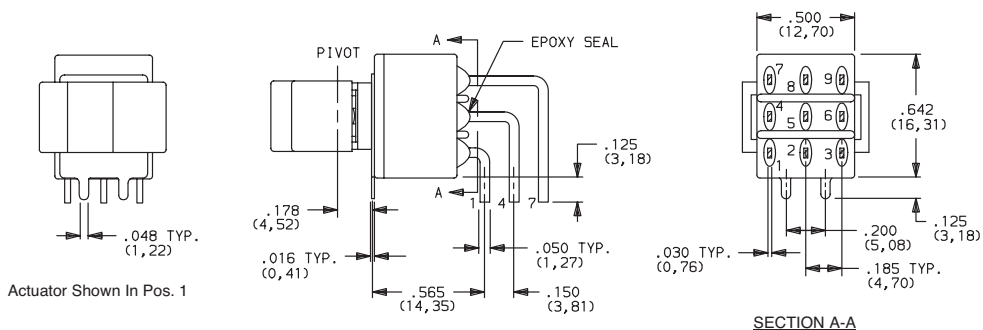
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



# E Series Sealed Miniature Rocker and Lever Handle Switches

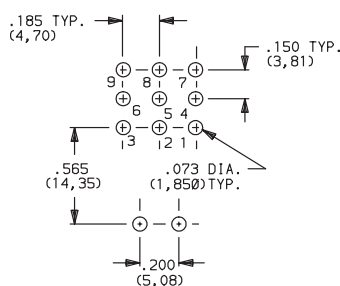
## TERMINATIONS

### A RIGHT ANGLE, PC THRU-HOLE



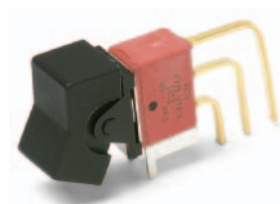
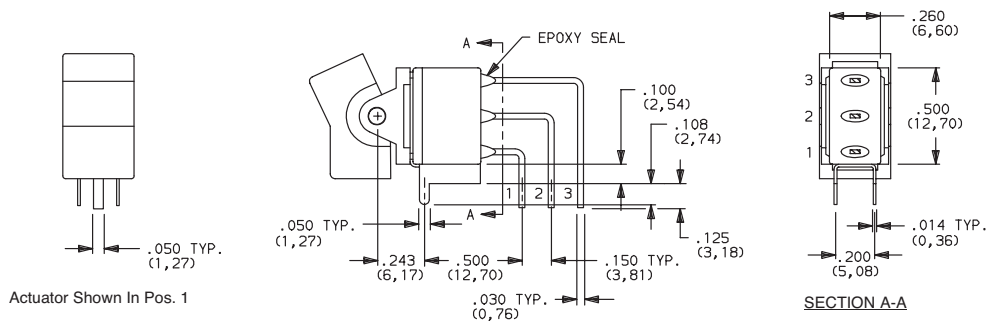
**E301J1ABE2**  
Horizontal Actuation  
**3PDT**

### PC MOUNTING



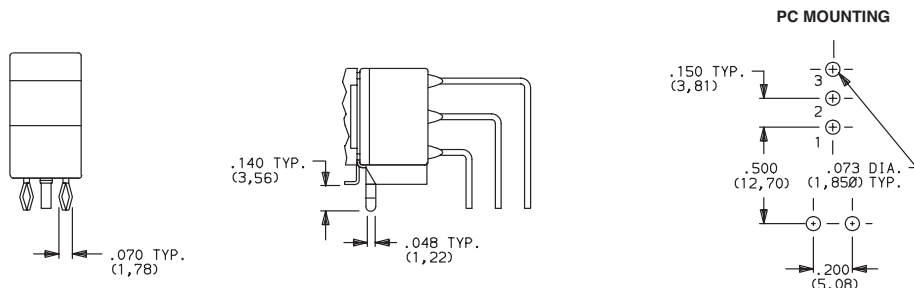
**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-28 and G-30.

### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



**E101J1AV2BE2**  
Vertical Actuation  
**SPDT**

### AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-28 and G-30.

Rocker



G

**C&K**



Third Angle  
Projection

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

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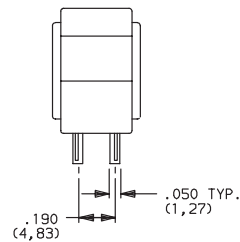
# E Series Sealed Miniature Rocker and Lever Handle Switches

## TERMINATIONS

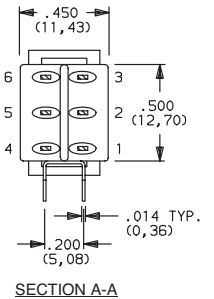
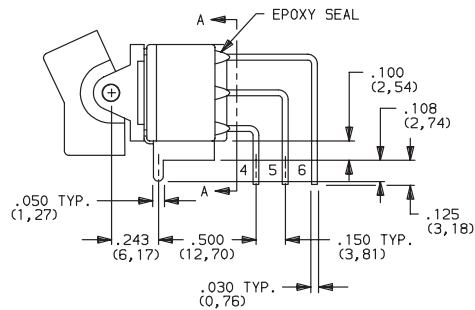
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



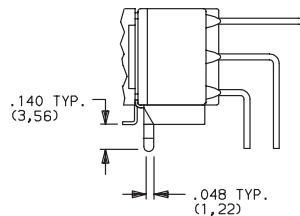
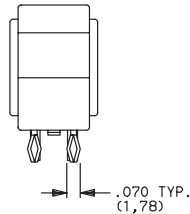
**E201J1AV2BE2**  
Vertical Actuation  
**DPDT**



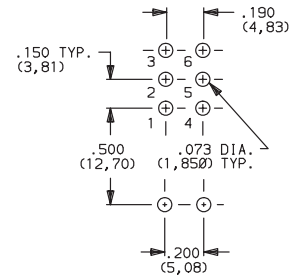
Actuator Shown In Pos. 1



**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH

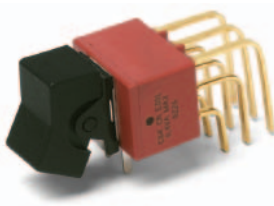


### PC MOUNTING

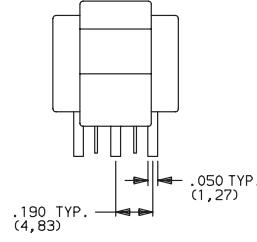


**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-28 and G-30.

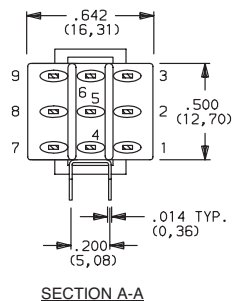
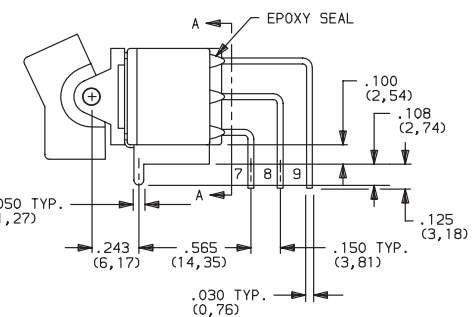
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



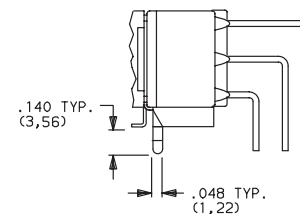
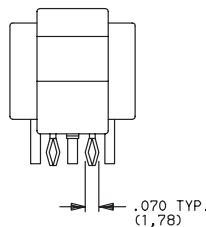
**E301J1AV2BE2**  
Vertical Actuation  
**3PDT**



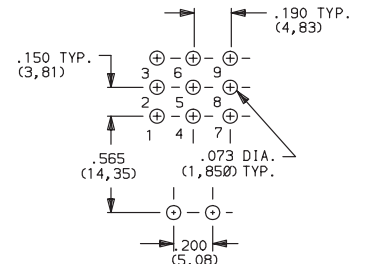
Actuator Shown In Pos. 1



**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH



### PC MOUNTING



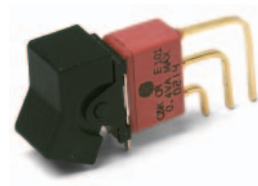
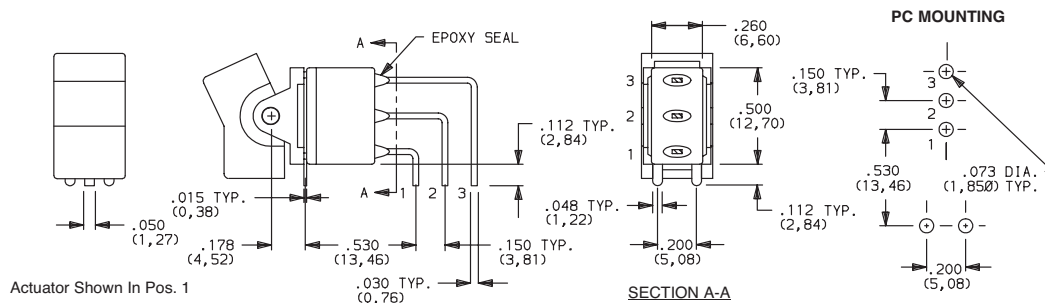
**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-28 and G-30.



# E Series Sealed Miniature Rocker and Lever Handle Switches

## TERMINATIONS

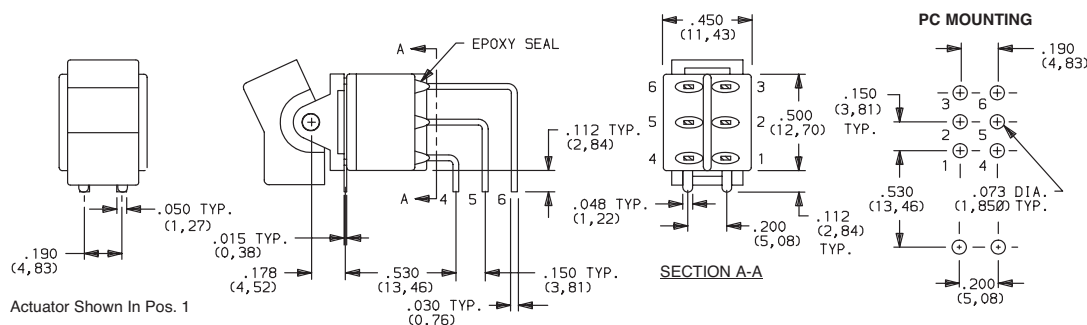
**V5** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



**E101J1V5BE2**  
Vertical Actuation  
**SPDT**

**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-28 and G-30.

**V5** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



**E201J1V5BE2**  
Vertical Actuation  
**DPDT**

**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-28 and G-30.

Rocker



G

**C&K**

Third Angle  
Projection

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

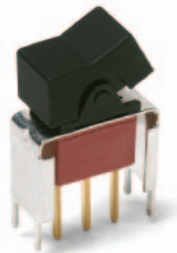
# E Series

## Sealed Miniature Rocker and Lever Handle Switches

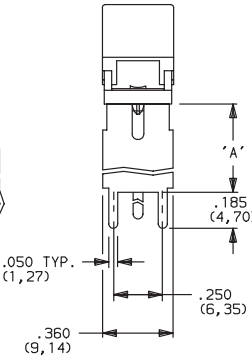
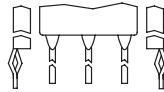
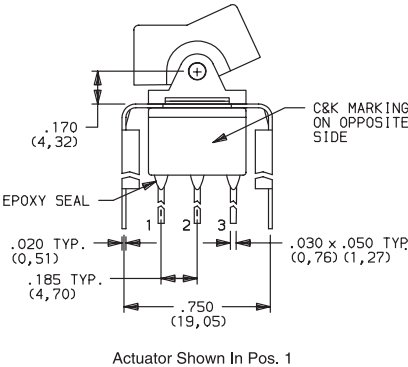
### TERMINATIONS

**V6, V7, V8** VERTICAL MOUNT, V-BRACKET

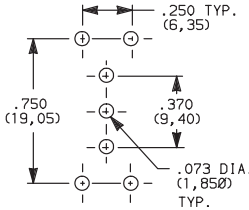
**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



E101J1\_BE2  
SPDT



#### PC MOUNTING



OPTION CODE	DIM 'A'
V21	.555 (14, 10)
V6	.460 (11, 68)
V7	.630 (16, 00)
V8	.953 (24, 21)

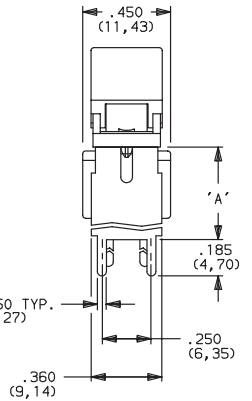
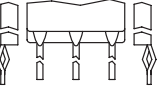
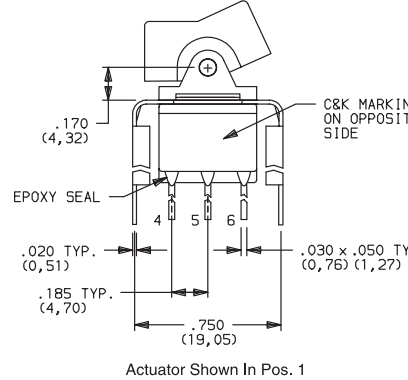
NOTE: Available actuators, see pages G-28 and G-30.

**V6, V7, V8** VERTICAL MOUNT, V-BRACKET

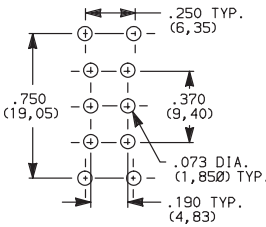
**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



E201J1\_BE2  
DPDT



#### PC MOUNTING



OPTION CODE	DIM 'A'
V21	.555 (14, 10)
V6	.460 (11, 68)
V7	.630 (16, 00)
V8	.953 (24, 21)

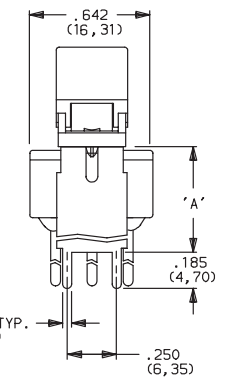
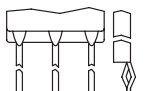
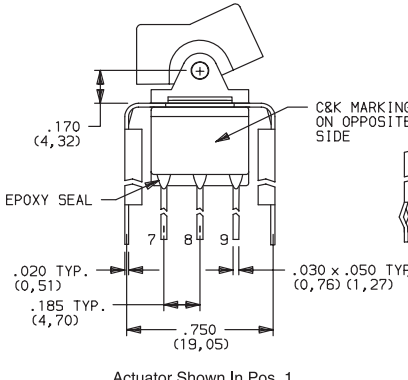
NOTE: Available actuators, see pages G-28 and G-30.

**V7, V8** VERTICAL MOUNT, V-BRACKET

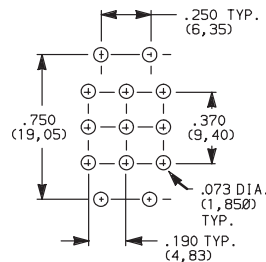
**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



E301J1\_BE2  
3PDT

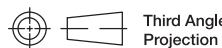


#### PC MOUNTING



OPTION CODE	DIM 'A'
V21	.555 (14, 10)
V7	.630 (16, 00)
V8	.953 (24, 21)

NOTE: Available actuators, see pages G-28 and G-30.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

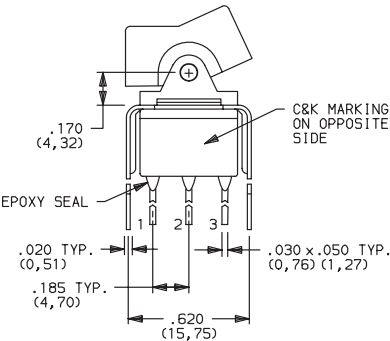
www.ck-components.com

# E Series

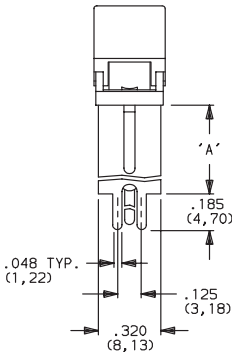
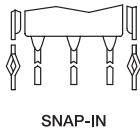
## Sealed Miniature Rocker and Lever Handle Switches

### TERMINATIONS

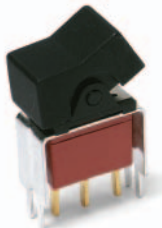
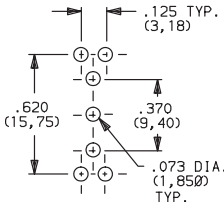
- V3, V4** VERTICAL MOUNT, V-BRACKET
- V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



#### PC MOUNTING

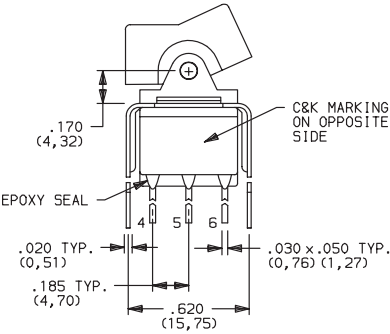


E101J1\_BE2  
SPDT

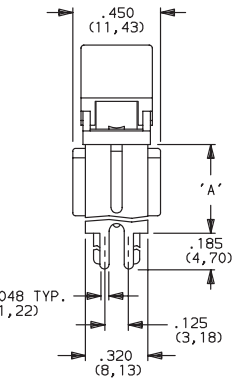
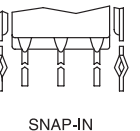
OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4	.630 (16,00)

NOTE: Available actuators, see pages G-28 and G-30.

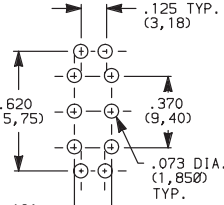
- V3, V4** VERTICAL MOUNT, V-BRACKET
- V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



#### PC MOUNTING

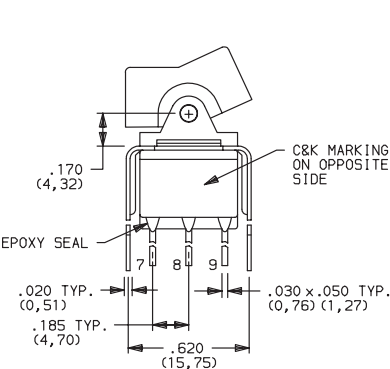


E201J1\_BE2  
DPDT

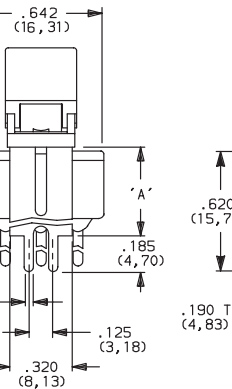
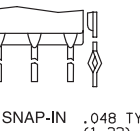
OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4	.630 (16,00)

NOTE: Available actuators, see pages G-28 and G-30.

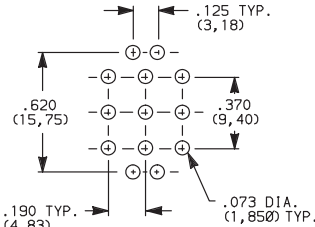
- V4** VERTICAL MOUNT, V-BRACKET
- VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



#### PC MOUNTING



E301J1\_BE2  
3PDT

OPTION CODE	DIM 'A'
V41	.630 (16,00)

NOTE: Available actuators, see pages G-28 and G-30.



Third Angle Projection

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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# E Series

## Sealed Miniature Rocker and Lever Handle Switches

### CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
<b>B</b>	GOLD <sup>1</sup>	GOLD <sup>1</sup>	LOW LEVEL/ DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
<b>P</b>		MATTE-TIN <sup>7</sup>		
<b>Q</b>	SILVER <sup>4,5</sup>	SILVER <sup>5</sup>	POWER	E1XX & E2XX MODELS: 7.5 AMPS @125 V AC OR 28 V DC; 3 AMPS @250 V AC. E3XX MODELS: 5 AMPS @ 125 V AC OR 28 V DC; 2 AMPS @ 250 V AC.
<b>S</b>		MATTE-TIN <sup>6</sup>		
<b>G</b>	GOLD OVER SILVER <sup>2,3</sup>	GOLD <sup>3</sup>	LOW LEVEL/DRY CIRCUIT OR POWER	E1XX AND E2XX MODELS: 0.4 VA MAX @20 V AC OR DC MAX. OR 7.5 AMPS @125 V AC OR 28 V DC; 3 AMPS @ 250 V AC. DC E3XX MODELS: 0.4 VA MAX. @ 20 V AC OR DC MAX. OR 5 AMPS @ 125 V AC OR 28 V DC; 2 AMPS @ 250 V AC.
<b>R</b>		MATTE-TIN <sup>6</sup>		

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

<sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.

<sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>4</sup> END CONTACTS: Coin silver, silver plated.

<sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, with gold flash over silver plate. Or copper alloy, silver plated.

<sup>6</sup> TERMINALS: Copper alloy, with matte-tin over nickel plate.

**NOTE:** Any models supplied with Q, B, G, S, P & R contact material are RoHS compliant.

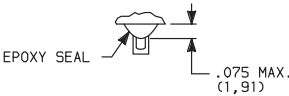
All models **c** **AL** **us** with all options when ordered with G, Q, S & R contact material.

B contact material standard with all terminations.

P, R & S contact materials not available with Z terminations.

### SEAL

**E** EPOXY SEAL



### AVAILABLE HARDWARE

J2, J21 Actuators



PART NO.  
**760502263** BLACK  
**760503000** RED  
Material: Nylon  
Finish: Matte

J3 Actuator



PART NO.  
**766602263** BLACK  
**766603000** RED  
Material: Nylon  
Finish: Matte

J1, J11 Actuators



PART NO.  
**776A02263** BLACK  
**776A03000** RED  
Material: Nylon  
Finish: Matte

J50 Actuator



PART NO.  
**775A02263** BLACK  
**775A03000** RED  
Material: Nylon  
Finish: Matte

J60 Actuator



PART NO.  
**613802263** BLACK  
**598103000** RED  
Material: Nylon  
Finish: Matte

J90 Actuator



PART NO.  
**598002263** BLACK  
**598003000** RED  
Material: Nylon  
Finish: Matte

NOTE: Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog. Other colors available, consult Customer Service Center.



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change





# E Series

## Sealed Miniature Rocker and Lever Handle Switches

### AVAILABLE HARDWARE

Fits Z3 Termination  
female connector



PART NO.  
530100000

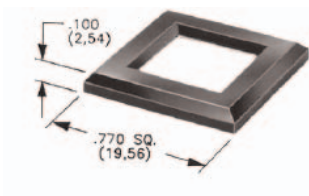
Available in loose pieces.

Frame for J11, J21 Actuators



PART NO.  
764500746 BLACK ENAMEL  
764601106 RETAINING SPRING  
Material: Spring Steel

J50, J60 & J90 Actuators

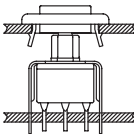


MATTE	GLOSS
PART NO.	PART NO.
486702000	486802000 BLACK
Material: Nylon	
Finish: Matte or Gloss	

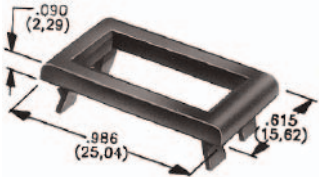
**NOTE:** Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog.  
Other colors available, consult Customer Service Center.

Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.

TYPICAL APPLICATION

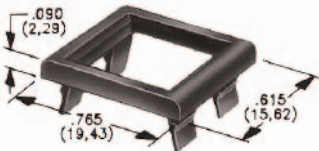


J1 & J2 Actuators



.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO.	PART NO.	PART NO.	PART NO.
452902263	452702263	452802263	452602263 BLACK
452903000	452703000	452803000	452603000 RED

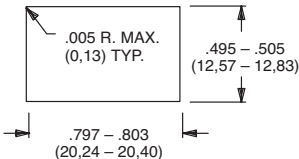
J50, J60 & J90 Actuators



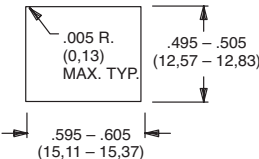
.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO.	PART NO.	PART NO.	PART NO.
432502263	432602263	432702263	432802263 BLACK
432503000	432603000	432703000	432803000 RED

#### PANEL MOUNTING

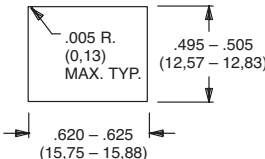
For part numbers  
4529xxxxx, 4527xxxxx,  
4528xxxxx, 4526xxxxx



For part numbers  
4325xxxxx, 4326xxxxx



For part numbers  
4327xxxxx, 4328xxxxx



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

Rocker



G

C&K

E Series

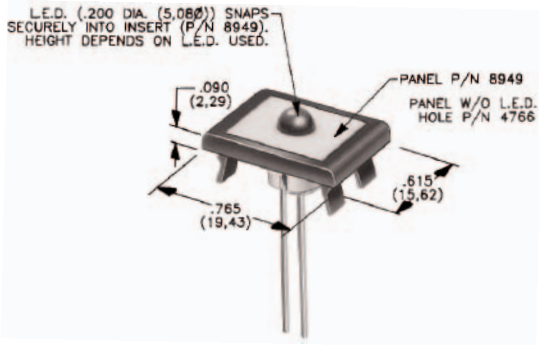
Sealed Miniature Rocker and Lever Handle Switches

AVAILABLE HARDWARE

Panel Inserts

Will fit separate snap-in frames for J50, J60, J90 actuators.

Above frames (part nos. 432XXXXXX) are also available with insert which accepts LED for indicator light assembly. Order insert separately from frame. Blank insert panel (without hole for LED) also available. **LED not included.**



PANEL INSERT  
WITH HOLE FOR LED

PART NO.  
894902000  
894903000

BLANK PANEL INSERT  
WITHOUT HOLE FOR LED

PART NO.  
476602000 BLACK  
476603000 RED

NOTE: Special colors, custom markings available, consult Customer Service Center.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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# ET Series

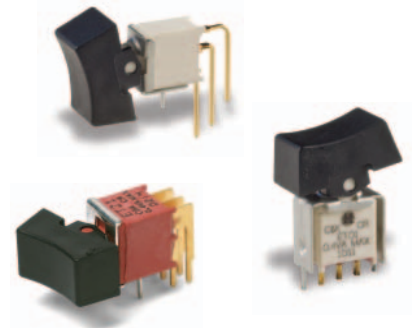
## Sealed Subminiature Rocker Switches

### Features/Benefits

- Sealed against solder and cleaning process contaminants
- Rocker, bushing & case—UL 94V-0
- Small footprint—saves space
- RoHS compliant

### Typical Applications

- Telecommunications
- Instrumentation
- Computers & peripherals



### Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: Copper alloy, silver plated. See page G-44 for additional ratings.

ELECTRICAL LIFE: ETX1 models: 60,000 make-and-break cycles at full load. All other models: 30,000 cycles.

CONTACT RESISTANCE: Below 20 m  $\Omega$  typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE:  $10^9 \Omega$  min.

DIELECTRIC STRENGTH: 1000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

PACKAGING: Surface mount switches standard in tape and reel packaging, see page G-45 for drawings and reel information.

### Materials

CASE & BUSHING: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0) or glass filled 4/6 nylon, flame retardant, heat stabilized (UL 94V-0).

ACTUATOR: Nylon, black standard. Internal o-ring seal standard with all actuators. SA surface mount: High temperature material, glass filled 46 nylon, flame retardant, heat stabilized (UL 94V-0).

SWITCH SUPPORT: Brass, matte-tin plated.

CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-44 for additional contact materials.

TERMINAL SEAL: Epoxy.

**NOTE:** Any models supplied with Q, B, G, S, P & R contact material are RoHS compliant.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-41 thru G-45. For additional options not shown in catalog, consult Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.

Switch Function	Actuator	Terminations	Contact Material	Seal	Actuator Color
<b>ET01</b> SP On-None-On	<b>J1</b> Rocker	<b>A</b> Right angle, PC thru-hole	<b>B</b> Gold	<b>E</b> Epoxy	<b>2</b> Black
<b>ET02</b> SP Off-None-On	<b>J6</b> Rocker	<b>AV</b> Vertical Right angle, PC thru-hole	<b>P</b> Gold, matte tin		<b>1</b> White
<b>ET03</b> SP On-Off-On		<b>C</b> PC Thru-hole	<b>Q</b> Silver		<b>3</b> Red
<b>ET05</b> SP Mom.-Off-Mom.		<b>V3</b> V-bracket	<b>S</b> Silver, matte-tin		
<b>ET07</b> SP On-Off-Mom.		<b>AV2</b> Vertical Right angle, PC thru-hole	<b>G</b> Gold over silver		
<b>ET08</b> SP On-None-Mom.		<b>SA</b> Right Angle Surface mount	<b>R</b> Gold over silver, matte-tin		
<b>ET21</b> DP On-None-On		<b>SA1</b> Right Angle Surface mount			
<b>ET27</b> DP On-Off-Mom.					
<b>ET28</b> DP On-None-Mom.					

Rocker











G



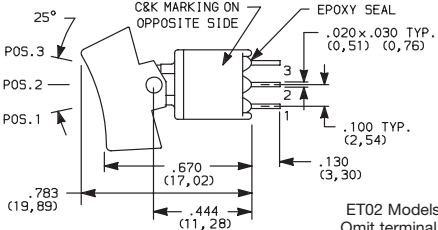
# ET Series Sealed Subminiature Rocker Switches

## SWITCH FUNCTION



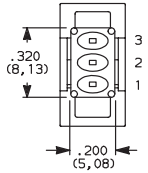
NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
								
SP	ET01	ON	NONE	ON	2-3	N/A	2-1	
	ET03	ON	OFF	ON		OPEN		
	ET05	MOM.	OFF	MOM.				
	ET07	ON	OFF	MOM.				
	ET08	ON	NONE	MOM.	N/A			
	ET02	OFF	NONE	ON	OPEN	N/A	3-1	SPST 

SPDT

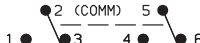


Part number shown: ET01J6CBE2

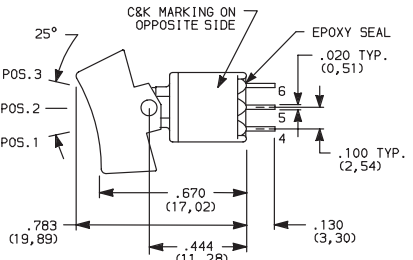
ET02 Models:  
Omit terminal 2



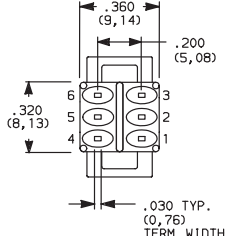
Terminal Nos.  
For Reference Only

DP	ET21	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	ET27	ON	OFF	MOM.		OPEN		
	ET28	ON	NONE	MOM.		N/A		

DPDT



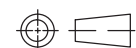
Part number shown: ET21J6CBE2



Terminal Nos.  
For Reference Only

MOM. = Momentary

All models with all options when ordered with G, S, R or Q contact material.



Third Angle  
Projection

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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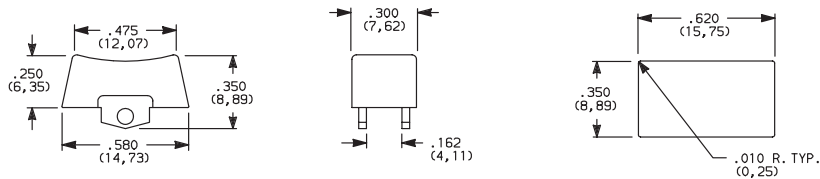


# ET Series

## Sealed Subminiature Rocker Switches

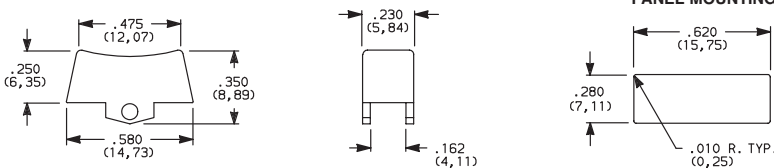
### ACTUATOR

#### J1 ROCKER



Available with all models except ET0X with A & SA & SA1 terminations.

#### J6 ROCKER



Standard with ET0X model with A & SA & SA1 terminations.

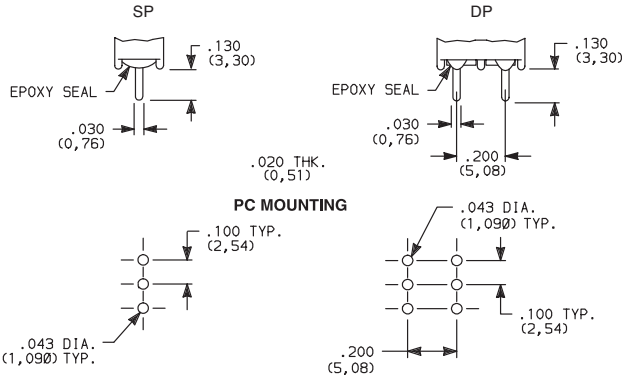
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

Actuators available separately, see page G-45. Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Internal o-ring actuator seal standard.

### TERMINATIONS

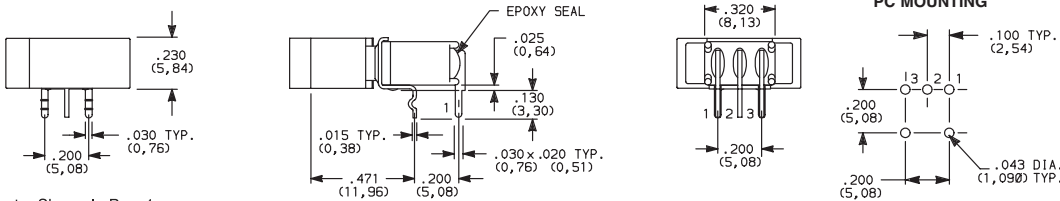
#### C PC THRU-HOLE



ET02 Models: Omit center hole.

#### SP & DP

#### A RIGHT ANGLE, PC THRU-HOLE



Actuator Shown In Pos. 1

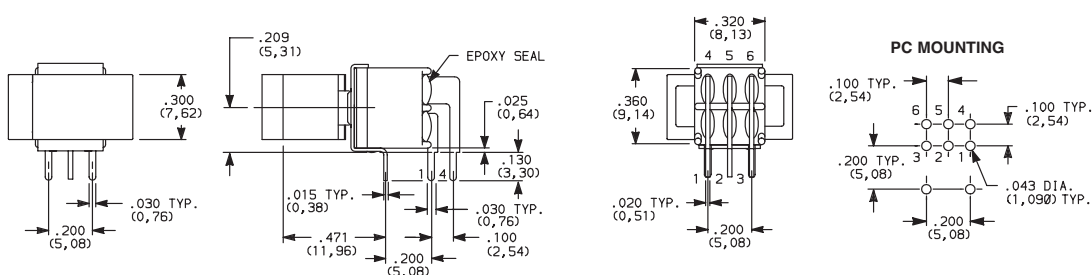
Not available with ET02 model.  
J6 actuator std. only on ET0X models with A terminations.



ET01J6ABE2

Horizontal Actuation  
SPDT

#### A RIGHT ANGLE, PC THRU-HOLE



Actuator Shown In Pos. 1



ET21J1ABE2

Horizontal Actuation  
DPDT

Rocker



G

C&K



Third Angle  
Projection

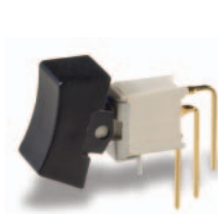
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

www.ck-components.com

# ET Series Sealed Subminiature Rocker Switches

## TERMINATIONS

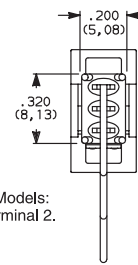
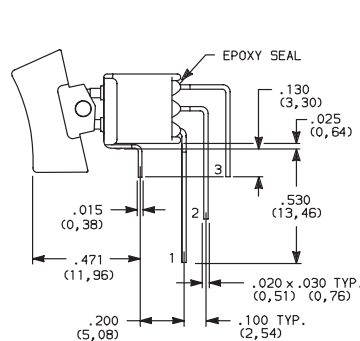
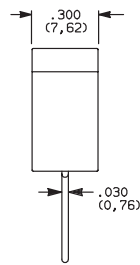
### AV VERTICAL RIGHT ANGLE, PC THRU-HOLE



**ET01J1AVBE2**  
Vertical Actuation  
**SPDT**

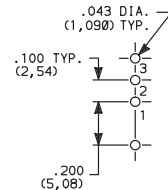
Actuator Shown In Pos. 1

**NOTE:** Terminal bend radii and lead-in manufacturing option.



ET02 Models:  
Omit terminal 2.

#### PC MOUNTING



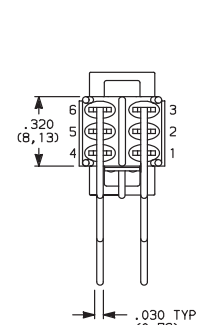
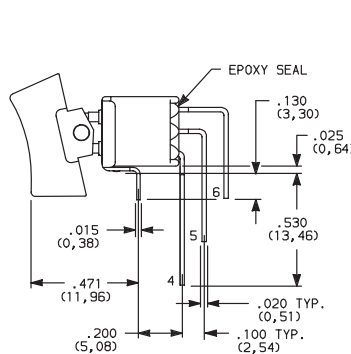
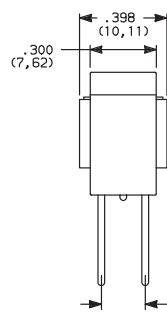
### AV VERTICAL RIGHT ANGLE, PC THRU-HOLE



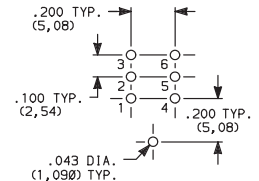
**ET21J1AVBE2**  
Vertical Actuation  
**DPDT**

Actuator Shown In Pos. 1

**NOTE:** Terminal bend radii and lead-in manufacturing option.



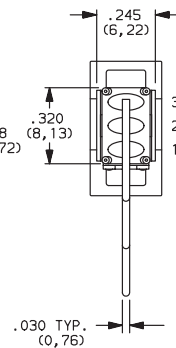
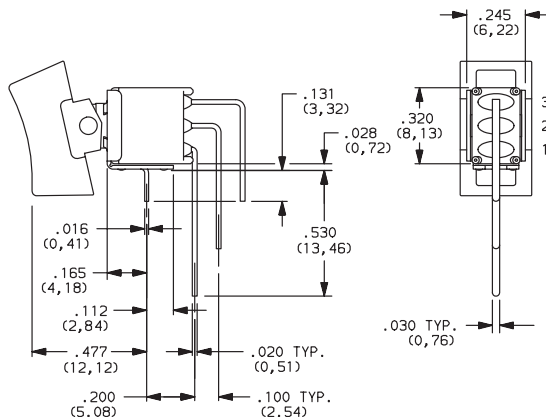
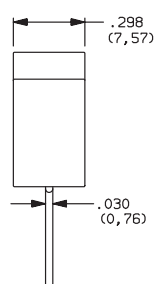
#### PC MOUNTING



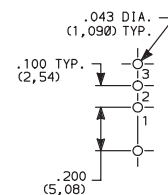
### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE



**ET01J1AV2BE2**  
Vertical Actuation  
**SPDT**



#### PC MOUNTING



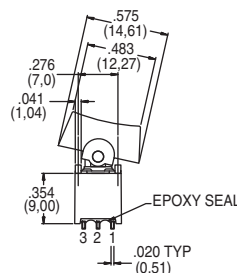
### SA1 RIGHT ANGLE, SURFACE MOUNT



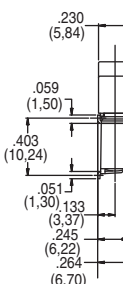
**ET01J6SA1BE2**  
Horizontal Actuation  
**SPDT**

**NOTE:** Standard with tape & reel packaging, see page G-45.

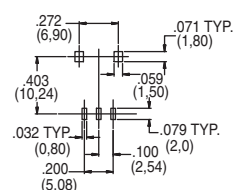
**NOTE:** Available in B contact materials only.  
Available in J6 actuator black only.  
Not available in ET02.



ACTUATOR SHOWN  
POS. 1



#### PC MOUNTING



Third Angle  
Projection

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



# ET Series

## Sealed Subminiature Rocker Switches

### TERMINATIONS

SA

RIGHT ANGLE, SURFACE MOUNT

PANEL MOUNTING

ET01J6SAPE2

Horizontal Actuation

SPDT

**NOTE:** Standard with tape & reel packaging, see page G-45.  
Available with P contact material only.

V3

VERTICAL MOUNT, V-BRACKET

PC MOUNTING

ET01J1V3BE2

SPDT

Actuator shown in Pos. 1

V3

VERTICAL MOUNT, V-BRACKET

PC MOUNTING

ET21J1V3BE2

DPDT

Actuator shown in Pos. 1

### CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
B	GOLD <sup>1</sup>	GOLD <sup>1</sup>	LOW LEVEL/ DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
P		MATTE-TIN <sup>6</sup>		
Q	SILVER <sup>4,5</sup>	SILVER <sup>5</sup>	POWER	ETX1 MODELS: 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 2 AMPS @ 120 V AC OR 28 V DC.
S		MATTE-TIN <sup>6</sup>		
G	GOLD OVER SILVER <sup>2,3</sup>	GOLD <sup>3</sup>	LOW LEVEL/DRY CIRCUIT OR POWER	ETX1 MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 3 AMPS @120 V AC OR 28 V DC. ALL OTHER MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 2 AMPS @ 120 V AC OR 28 V DC.
R		MATTE-TIN <sup>6</sup>		

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

<sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.

<sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>4</sup> END CONTACTS: Coin silver, silver plated.

<sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.

<sup>6</sup> TERMINALS: Copper alloy, with matte-tin over nickel plate.

**NOTE:** Any models supplied with Q, B, G, S, P & R contact material are RoHS compliant.

All models with all options when ordered with G, Q, S & R contact material.

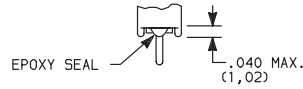


# ET Series Sealed Subminiature Rocker Switches

SEAL



**E** EPOXY SEAL



## AVAILABLE HARDWARE

J1 Actuator



PART NO.

**261A01000** WHITE  
**261A02263** BLACK  
**261A03000** RED

Material: Nylon  
Finish: Matte

NOT AVAILABLE WITH A, SA, SA1

J6 Actuator



PART NO.

**621C01000** WHITE  
**621C02263** BLACK  
**621C03000** RED

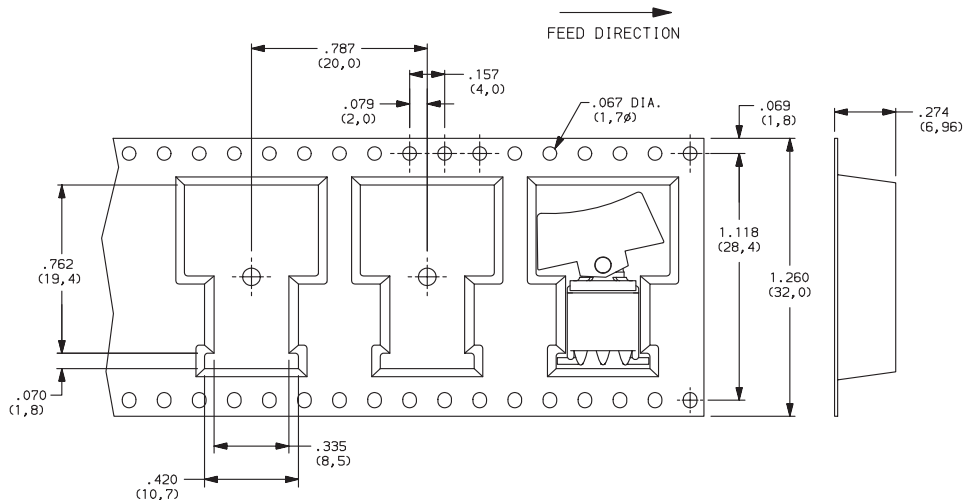
Material: Nylon  
Finish: Matte  
For Hi Temp, Consult Factory

**NOTE:** Other colors available,  
consult Customer Service Center.

## TAPE & REEL SA TERMINATION

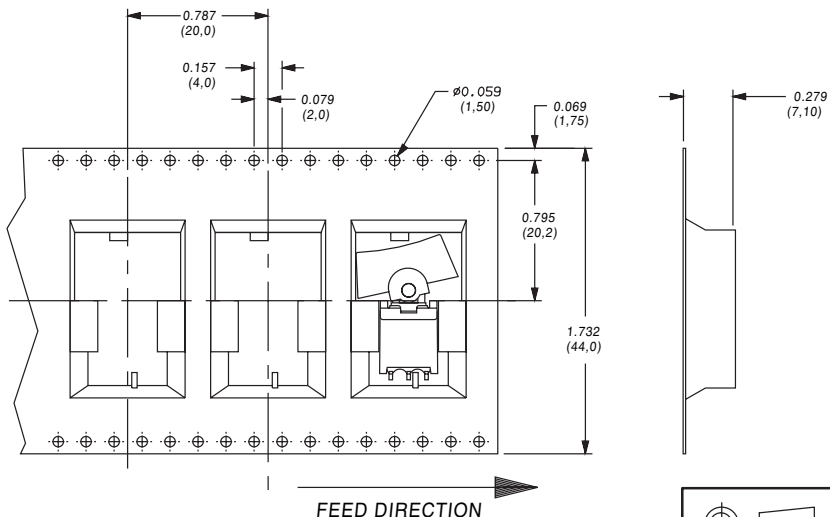
ET01J6SABE (SHOWN)

REEL INFORMATION	
OUTSIDE DIAMETER	13.00 (330,0)
PILOT HOLE	.512 (13,0)
QUANTITY PER REEL	500



ET01J6SA1BE (SHOWN)

REEL INFORMATION	
OUTSIDE DIAMETER	13.00 (330,0)
PILOT HOLE	.795 (20,20)
QUANTITY PER REEL	450



Third Angle  
Projection

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



# T Series

## Subminiature Rocker Switches

### Features/Benefits

- Compact size—small footprint
- Single and double pole models
- PC and panel mounting options available
- RoHS compliant

### Typical Applications

- Telecommunications
- Instrumentation
- Medical Equipment



Models Available

### Specifications

**CONTACT RATING:** Q contact material (TX01 models): 3 AMPS @ 120 V AC or 28 V DC. All other models: 2 AMPS @ 120 V AC or 28 V DC. See page G-50 for additional ratings.

**ELECTRICAL LIFE:** TX01 models: 60,000 make-and-break cycles at full load. All other models: 30,000 cycles.

**CONTACT RESISTANCE:** Below 20 m  $\Omega$  typ. initial @ 2–4 V DC, 100 mA, for both silver and gold plated contacts.

**INSULATION RESISTANCE:**  $10^9 \Omega$  min.

**DIELECTRIC STRENGTH:** 1000 Vrms min. @ sea level.

**OPERATING TEMPERATURE:** –30°C to 85°C.

**SOLDERABILITY:** Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

**NOTE:** Any models supplied with B, G, P, Q or R contact material are RoHS compliant.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Materials

**CASE:** Glass filled nylon 6/6, flame retardant, heat stabilized or diallyl phthalate (DAP), (UL 94V-0) or glass filled nylon 4/6, flame retardant, heat stabilized.

**ACTUATOR:** Nylon, black standard.

**BUSHING:** Brass, nickel plated.

**HOUSING:** Stainless steel.

**SWITCH SUPPORT:** Brass, matte-tin plated.

**MOUNTING BRACKET:** Stainless steel.

**END CONTACTS:** B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page G-50 for additional contact materials.

**CENTER CONTACTS & TERMINALS:** B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-53 for additional contact materials.

**TERMINAL SEAL:** Epoxy.

**HARDWARE:** Nut, Screws & Lockwasher: Stainless steel. Standoff: Nylon standard.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-47 through G-51. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all “bottom-wash” PCB cleaning methods.

<b>Switch Function</b>	<b>Actuator</b>	<b>Terminations</b>	<b>Contact Material</b>	<b>Seal</b>	<b>Actuator Color</b>
<b>T101</b> SP On-None-On	<b>J1</b> Rocker, .300" wide	<b>A</b> Right angle, PC thru-hole	<b>B</b> Gold	<b>E</b> Epoxy	<b>2</b> Black
<b>T102</b> SP Off-None-On	<b>J6</b> Rocker, .230" wide	<b>AV</b> Vertical Right angle, PC thru-hole	<b>P</b> Gold, matte-tin		
<b>T103</b> SP On-Off-On		<b>Z</b> Solder lug	<b>Q</b> Silver		
<b>T105</b> SP Mom.-Off-Mom.		<b>V3</b> V-bracket	<b>G</b> Gold over silver		
<b>T107</b> SP On-Off-Mom.			<b>R</b> Gold over silver, matte-tin		
<b>T201</b> DP On-None-On					
<b>T205</b> DP Mom.-Off-Mom.					

Rocker



G

**C&K**

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

T Series  
Subminiature Rocker Switches

SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
		C&K marking on opposite side			C&K marking on opposite side			
SP	T101	ON	NONE	ON	2-3	N/A	2-1	
	T103	ON	OFF	ON		OPEN		
	T105	MOM.	OFF	MOM.				SPDT
	T107	ON	OFF	MOM.				
	T102	OFF	NONE	ON	OPEN	N/A	3-1	
<b>SPDT</b>								
Part number shown: T101J6ZBE2				Terminal Nos. For Reference Only				
DP	T201	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	T205	MOM.	OFF	MOM.		OPEN		
<b>DPDT</b>								
Part number shown: T201J1ZBE2				Terminal Nos. For Reference Only				

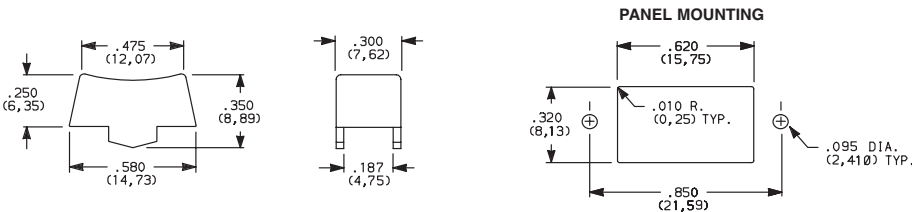
MOM. = Momentary  
All models with all options when ordered with G, Q or R contact material.



# T Series Subminiature Rocker Switches

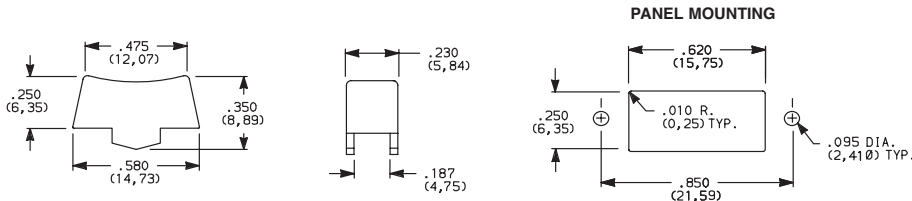
## ACTUATOR

**J1** ROCKER, .300 WIDE



Standard with all models except T10X with A terminations.

**J6** ROCKER, .230 WIDE



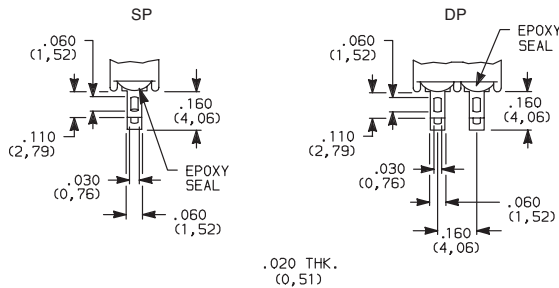
Standard with T10X model with A terminations.

OPTION CODE	ACTUATOR COLOR
<b>2</b>	BLACK

Actuators available separately, see page G 51-G53. Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

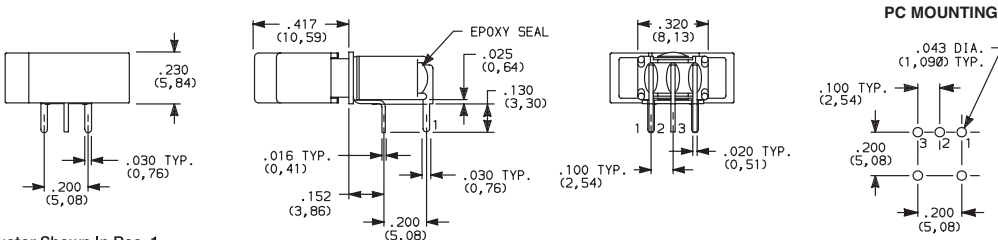
## TERMINATIONS

**Z** SOLDER LUG



**SP and DP** Not available with P or R contact material.

**A** RIGHT ANGLE, PC THRU-HOLE



Actuator Shown In Pos. 1



**T101J6ABE2**  
Horizontal Actuation  
**SPDT**

Not available with T102 model. J6 actuator standard only on T10X models with A terminations.

Third Angle Projection  
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

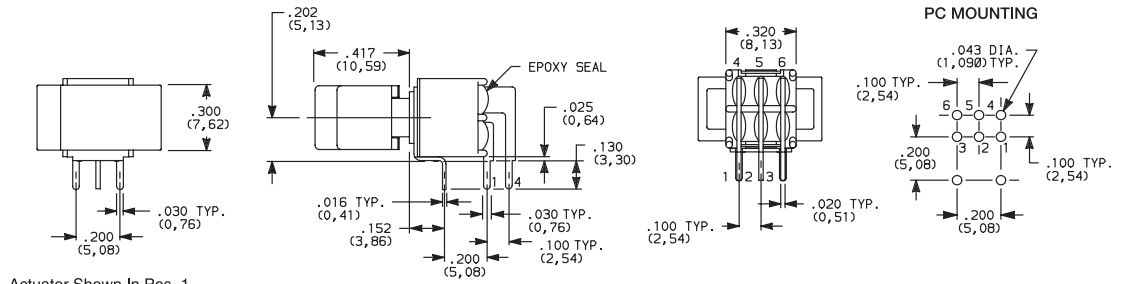
# T Series Subminiature Rocker Switches

## TERMINATIONS

### A RIGHT ANGLE, PC THRU-HOLE



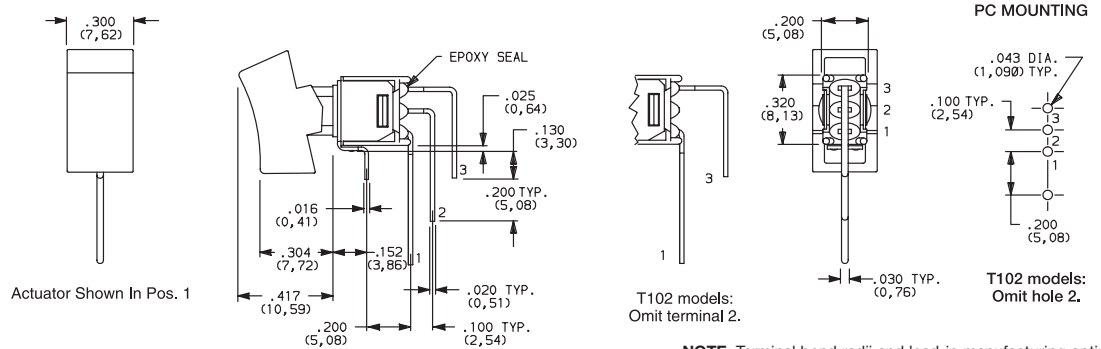
**T201J1ABE2**  
Horizontal Actuation  
**DPDT**



### AV VERTICAL RIGHT ANGLE, PC THRU-HOLE

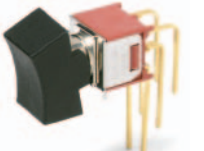


**T101J1AVBE2**  
Vertical Actuation  
**SPDT**

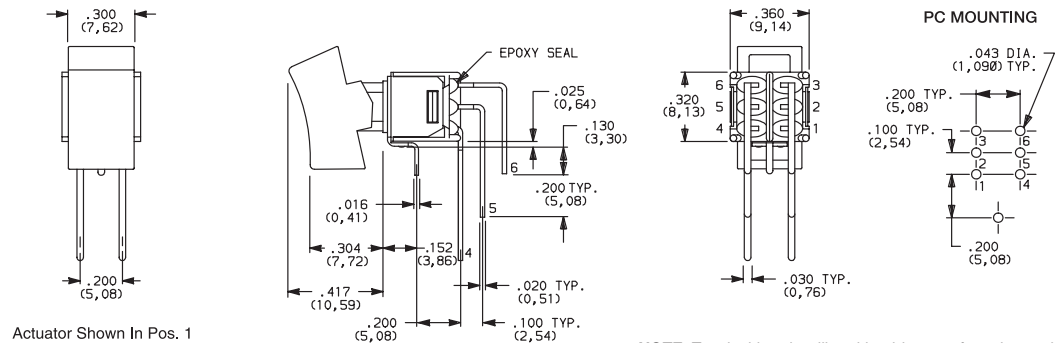


**NOTE:** Terminal bend radii and lead-in manufacturing option.

### AV VERTICAL RIGHT ANGLE, PC THRU-HOLE



**T201J1AVBE2**  
Vertical Actuation  
**DPDT**

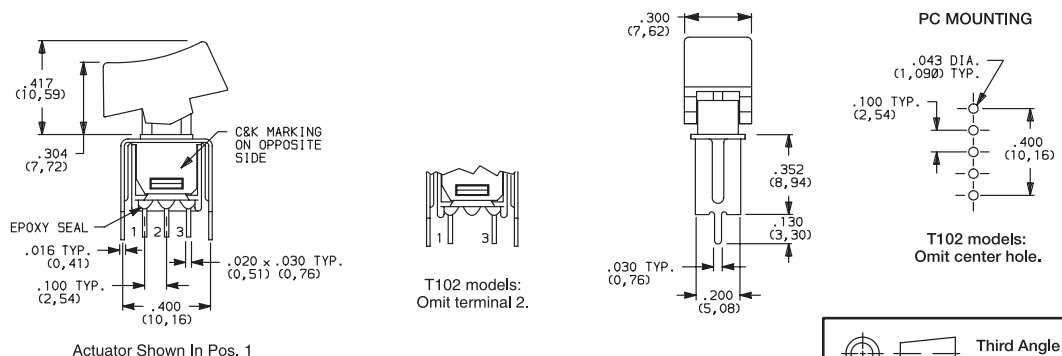


**NOTE:** Terminal bend radii and lead-in manufacturing option.

### V3 VERTICAL MOUNT, V-BRACKET



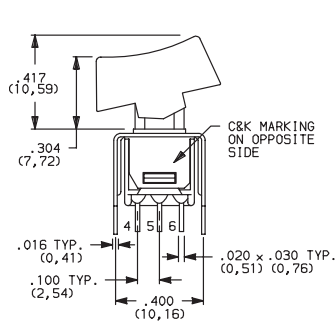
**T101J1V3BE2**  
**SPDT**



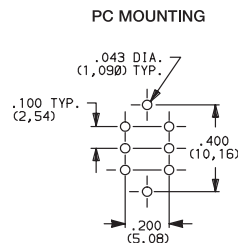
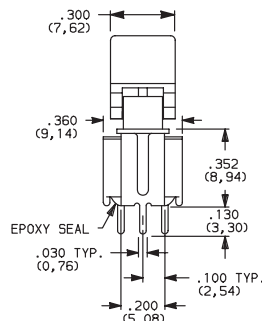
# T Series Subminiature Rocker Switches

## TERMINATIONS

**V3** VERTICAL MOUNT, V-BRACKET



Actuator Shown In Pos. 1



T201J1V3BE2  
DPDT


## CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
<b>B</b>	GOLD <sup>3</sup>	GOLD <sup>1</sup>	LOW LEVEL/ DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
<b>P</b>		MATTE-TIN <sup>6</sup>		
<b>Q</b>	SILVER <sup>4,5</sup>	SILVER <sup>5</sup>	POWER	TX01 MODELS: 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 2 AMPS @ 120 V AC OR 28 V DC.
<b>G</b>	GOLD OVER SILVER <sup>2,3</sup>	GOLD <sup>3</sup>	LOW LEVEL/DRY CIRCUIT OR POWER	TX01 MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 2 AMPS @ 120 V AC OR 28 V DC.
<b>R</b>		MATTE-TIN <sup>6</sup>		

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- <sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.
- <sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>4</sup> END CONTACTS: Coin silver, silver plated.
- <sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- <sup>6</sup> TERMINALS: Copper alloy, with matte-tin over nickel plate.

**NOTE:** Any models supplied with B, G, P, Q & R contact material are RoHS compliant.

All models  with all options when ordered with G, Q, or R contact material.

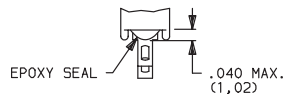
B contact material standard with A, AV, V3 terminations.

Q contact material standard with C & Z terminations.

P & R contact materials not available with Z terminations.

## SEAL

**E** EPOXY SEAL



Rocker



G

**C&K**



Third Angle  
Projection

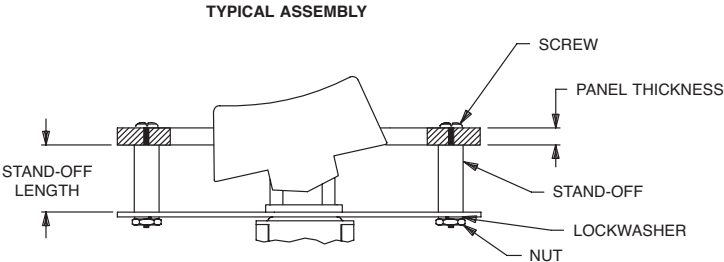
Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

# T Series Subminiature Rocker Switches

## AVAILABLE HARDWARE

Panel mounting hardware for rocker and lever handle switches is available separately. Mounting hardware consists of two screws, two nuts, two standoffs and two lockwashers per switch, and is available for panel thicknesses of 1/16, 3/32 and 1/8 inch. See part numbers below.



PART NO.	PANEL THK.	STANDOFF LENGTH
761101000	1/16 IN. (1,59)	.295 (7,49)
761102000	3/32 IN. (2,38)	.264 (6,71)
761103000	1/8 IN. (3,18)	.233 (5,92)

**NOTE:** Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog.

J1 Actuator

PART NO.

468002263 BLACK

Material: Nylon

Finish: Matte

J6 Actuator

PART NO.

468102263 BLACK

Material: Nylon

Finish: Matte

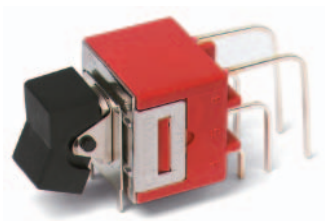
**NOTE:** Other colors, custom actuator markings and legends available, consult Customer Service Center.





# 9000 Series

## Power Rocker and Lever Handle Switches



### Features/Benefits

- **Thermoset UL 94V-0 housing**
- **Rugged construction**
- **Variety of actuator and termination options**
- **RoHS compliant**

### Typical Applications

- **Small equipment**
- **Shut-off switch**

UL 61058-1



### Specifications

CONTACT RATING:

9201 Model:

- GP (general purpose)
- 6 AMPS 125 VAC 50/60 Hz T85 10,000 cycles (10E3)
- 3 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
- R (resistive)
- 6 AMPS 30 VDC T85 10,000 cycles

9221 Model:

- GP (general purpose)
- 10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
- 5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
- R (resistive)
- 10 AMPS 30 VDC T85 10,000 cycles

ELECTRICAL LIFE: 25,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 m  $\Omega$  typ. initial @ 2–4 V DC, 100 mA.

INSULATION RESISTANCE: 10<sup>9</sup>  $\Omega$  min.

DIELECTRIC STRENGTH: 2,500 Vrms min. @ sea level.

OPERATING TEMPERATURE: –30°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

### Materials

CASE: Diallyl phthalate (DAP) (UL 94V-0).

ACTUATOR: Nylon, black standard.

FRAME-REAR MOUNT OPTIONS: Spring steel, black.

BUSHING: Brass, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, matte-tin plated.

MOUNTING BRACKET: Stainless steel.

END CONTACTS: 9201 Model: Coin silver, silver plated.  
9221 Model: Silver cadmium oxide.

CENTER CONTACTS: Copper alloy, silver plated

ALL TERMINALS: 9201 Model: Copper alloy, silver plated.  
9221 Model: Copper alloy, matte-tin plated.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut, Screw & Lockwasher: Stainless steel. Standoff: Nylon standard, aluminum available, consult Customer Service Center.

\*Cadmium used in electrical contacts is acceptable for RoHS.

**NOTE:** Any models supplied with Q contact material are RoHS compliant.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-53 through G-56. For additional options not shown in catalog, consult Customer Service Center.



#### Switch Function

- 9201** DP On-On, 6 Amps
- 9221** DP On-On, 10 Amps

#### Actuator

- J1** Rocker
- J2** Lever
- J3** Rocker
- J37** Rocker with metal frame

#### Terminations

- Z** Solder lug (9201 only)
- AV2** Vertical right angle, PC thru-hole (9201 only)
- C** PC Thru-hole (9201 only)
- Z4** Quick connect

#### Contact Material

- Q** Silver

#### Seal

- E** Epoxy
- D** No Seal

#### Actuator Color

- 2** Black
- 1** White
- 3** Red

#### Frame Color

- 2** Black
- NONE** No frame color required

Rocker



G

**C&K**

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

# 9000 Series Power Rocker and Lever Handle Switches

## SWITCH FUNCTION



NO. POLES	MODEL NO.	RATING*	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
			POS. 1	POS. 2	POS. 1	POS. 2	
DP	9201	6 AMPS	ON	ON	2-3,5-6	2-1,5-4	
	9221	10 AMPS	ON	ON			

**DPDT**

Part number shown: 9201J1ZQE2

Terminal Nos. Molded On Side Of Case

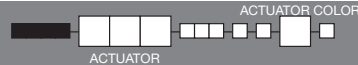
All 9000 Series models meet international dimensional and electrical requirements.



\* See CONTACT MATERIAL, page G-55, for complete ratings.

9221 model must be ordered with Z4 terminations and D seal option.

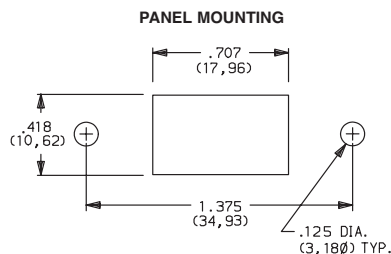
## ACTUATOR-PANEL MOUNT



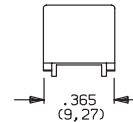
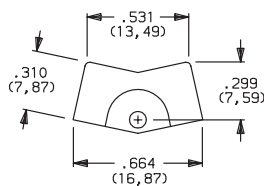
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

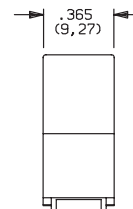
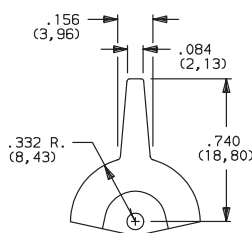
**NOTE:** Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Actuators available separately, see page G-55-56. Hardware available separately, see Technical Data section of this catalog.



### J1 ROCKER



### J2 LEVER



Dimensions are shown: Inches (mm)

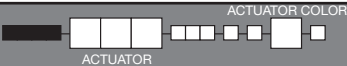
Specifications and dimensions subject to change



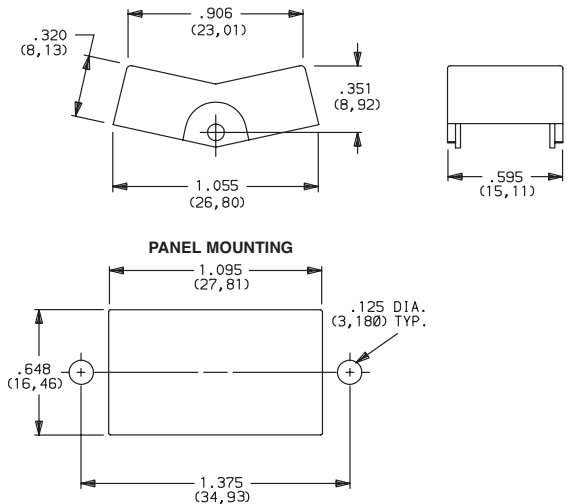
# 9000 Series

## Power Rocker and Lever Handle Switches

### ACTUATOR-PANEL MOUNT



#### J3 ROCKER

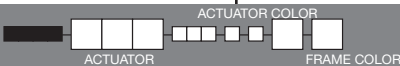


OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

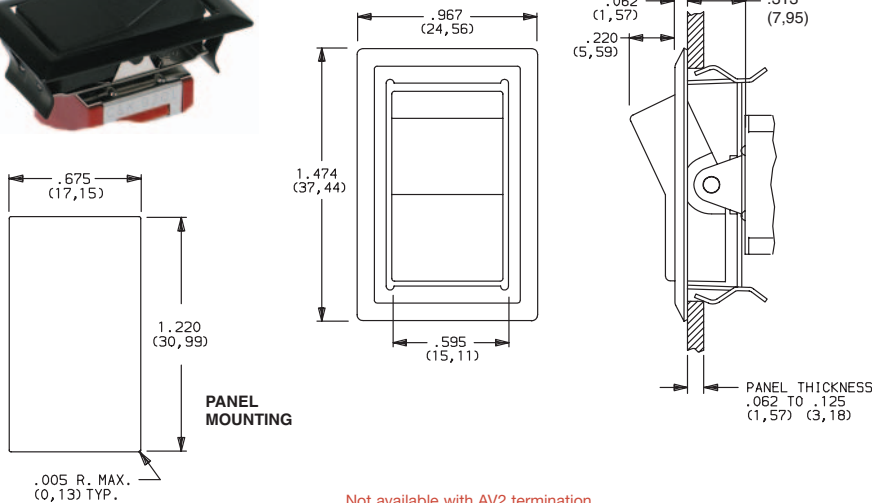
Actuator finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Actuators available separately, see page G-55-56. Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Hardware available separately, see Technical Data section of this catalog.

### ACTUATOR-REAR MOUNT



#### J37 ROCKER WITH METAL FRAME



Not available with AV2 termination.

OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

OPTION CODE	FRAME COLOR
2	BLACK

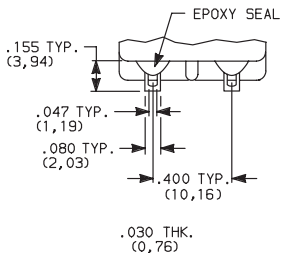
Actuator finish: Matte. Frame finish: Gloss. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Actuators & frames available separately, see page G-55-56. Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Hardware available separately, see Technical Data section of this catalog.

### TERMINATIONS

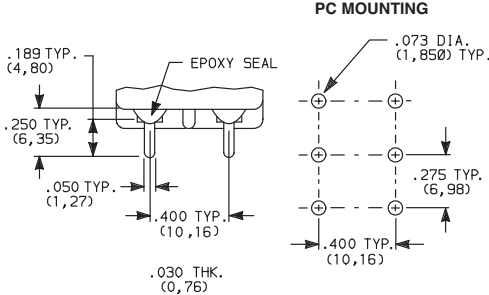


#### Z SOLDER LUG



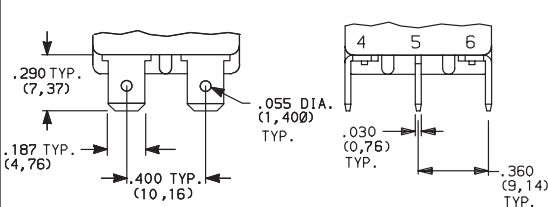
9201 Only

#### C PC THRU-HOLE



9201 Only

#### Z4 QUICK CONNECT



9201 and 9221

**NOTE:** Only termination available with 9221 model. Must be ordered with D seal option. Mating terminal standard Nema .187" quick connect.



Third Angle Projection

Dimensions are shown: Inches (mm)

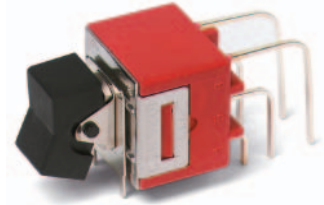
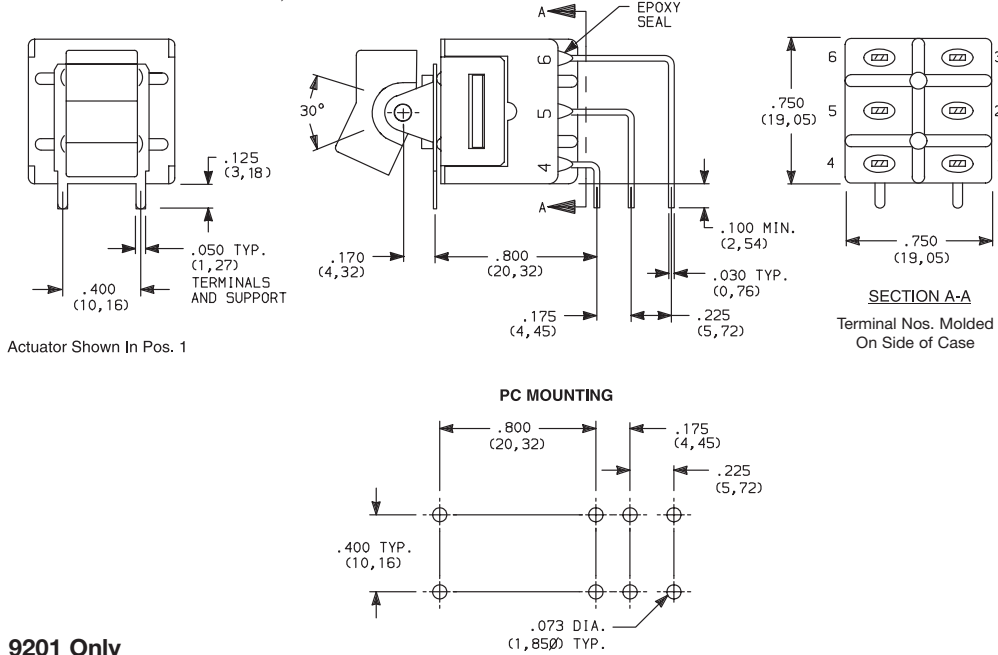
Specifications and dimensions subject to change

www.ck-components.com

# 9000 Series Power Rocker and Lever Handle Switches

## TERMINATIONS

### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE



9201J1AV2QE2  
Vertical Actuation  
DPDT

### 9201 Only

**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Terminal spacing greater than 3mm at all points.

## CONTACT MATERIAL

OPTION CODE	MODEL	CONTACT MATERIAL	TERMINAL PLATING	RATINGS
Q	9201	SILVER <sup>1,2</sup>	SILVER OR TIN <sup>2,5</sup>	GP (general purpose) 6 AMPS 125 VAC 50/60 Hz T85 10,000 cycles (10E3) 3 AMPS 250 VAC 50/60 Hz T85 10,000 cycles R (resistive) 6 AMPS 30 VDC T85 10,000 cycles
	9221	SILVER CADMIUM OXIDE <sup>3,4,6</sup>	TIN <sup>5</sup>	GP (general purpose) 10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles 5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles R (resistive) 10 AMPS 30 VDC T85 10,000 cycles

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- <sup>1</sup> END CONTACTS: Coin silver, silver plated.
- <sup>2</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, silver plated.
- <sup>3</sup> END CONTACTS: Silver cadmium oxide.
- <sup>4</sup> CENTER CONTACTS: Copper alloy, silver plated.
- <sup>5</sup> Z4 TERMINALS ONLY: Copper alloy, tin plated.
- <sup>6</sup> Cadmium used for electrical contacts is acceptable for RoHS.

**NOTE:** Any models supplied with Q contact material is RoHS compliant.

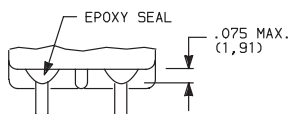
9221 model must be ordered with Z4 terminations and D seal option.

All 9000 Series models meet international dimensional and electrical requirements.



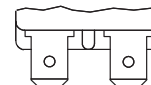
## SEAL

### E EPOXY SEAL



Not available with 9221 model or Z4 terminations.

### D NO EPOXY SEAL



Must be ordered with 9221 model and Z4 termination.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

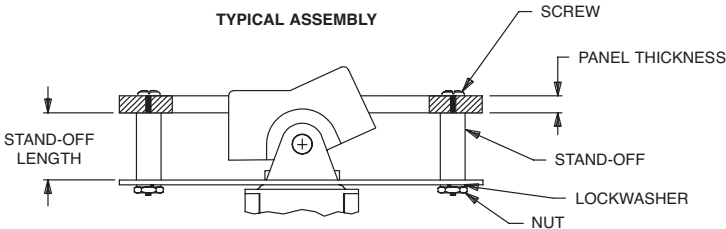


# 9000 Series

## Power Rocker and Lever Handle Switches



AVAILABLE HARDWARE

Panel mounting hardware for rocker and lever handle switches is available separately. Mounting hardware consists of two screws, two nuts, two standoffs and two lockwashers per switch, and is available for panel thicknesses of 1/16, 3/32 and 1/8 inch. See part numbers below.

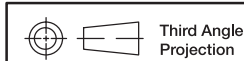


J1 & J2 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
761101000	1/16 IN. (1,59)	.295 (7,49)
761102000	3/32 IN. (2,38)	.264 (6,71)
761103000	1/8 IN. (3,18)	.233 (5,92)

<p><b>J1 Actuator</b></p>  <p><b>PART NO.</b>  776A01000 WHITE  776A02263 BLACK  776A03000 RED</p> <p>Material: Nylon  Finish: Matte</p>	<p><b>J2 Actuator</b></p>  <p><b>PART NO.</b>  760501000 WHITE  760502263 BLACK  760503000 RED</p> <p>Material: Nylon  Finish: Matte</p>	<p><b>J3, J37 Actuators</b></p>  <p><b>PART NO.</b>  766601000 WHITE  766602263 BLACK  766603000 RED</p> <p>Material: Nylon  Finish: Matte</p>
<p><b>Frame for J37 Actuators</b></p>  <p><b>PART NO.</b>  445400746 BLACK ENAMEL  445400747 WHITE ENAMEL</p> <p>Material: Spring Steel</p>	<p><b>NOTE:</b> Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog.</p> <p>Other colors available, consult Customer Service Center.</p>	

Rocker



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# DA Series

## Miniature Single Pole Rocker Switches

### Features/Benefits

- Nice actuator styling with multiple options
- Guards to prevent accidental actuation
- Momentary and maintained functions
- IP65 splash proof rubber boot option
- RoHS compliant

### Typical Applications

- Small appliances
- Computers and peripherals
- Medical instrumentation



**C&K** US UL 61058-1

### Specifications

#### CONTACT RATING:

- 16 AMPS @ 125 VAC, 1/3 HP;
- 10 AMPS @ 250 VAC, 1/2 HP.
- 10 AMPS @ 125 VAC, 6 AMPS @ 250 VAC.

ELECTRICAL LIFE: 10,000 make and break cycles at full load.

INSULATION RESISTANCE:  $10^8 \Omega$  min.

DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.

OPERATING TEMPERATURE: -20°C to +85°C

### Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), black, matte finish.

ILLUMINATED ACTUATOR: Polycarbonate, matte finish.

CENTER CONTACTS: Silver plated, copper alloy.

END CONTACTS: Silver plated.

ALL TERMINALS: Silver plated, copper alloy.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch









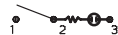

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-58 through G-60. For additional options not shown in catalog, consult Customer Service Center.

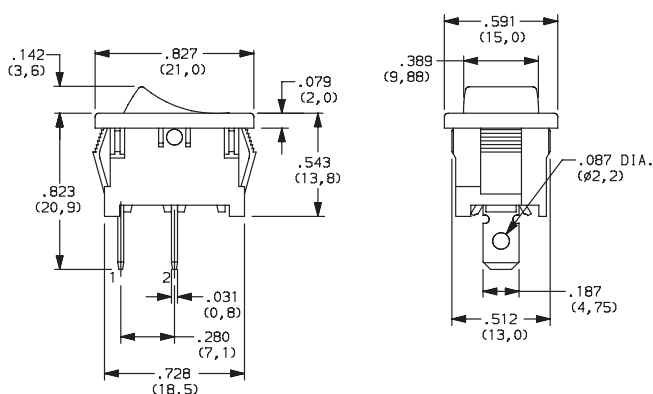
<div>Switch Function</div> <div>DA101 SPDT On-None-On</div> <div>DA102 SPST On-None-Off</div> <div>DA103 SPDT On-Off-On</div>	<div>Actuator</div> <div>J1 Rocker</div> <div>J2 Two-tone rocker</div> <div>*J3 Illuminated rocker</div> <div>J4 Circle, illuminated rocker</div> <div>J5 Oval, illuminated rocker</div> <div>Actuator Color</div> <div>1-5 See Chart on Page G-59</div> <div>*R Red, illuminated</div> <div>*A Amber, illuminated</div> <div>*G Green, illuminated</div>	<div>Mounting Style/Color</div> <div>S2 Snap-in, black</div> <div>S1 Snap-in, white</div> <div>B2 Recessed snap-in bracket, black</div> <div>G2 Guard, black</div> <div>Termination</div> <div>15 .187" quick connect</div> <div>17 Solder lug</div> <div>02 Thru-hole</div> <div>A Right angle</div> <div>Actuator Marking</div> <div>(NONE) No marking</div> <div>D ON-OFF</div> <div>H "O I" - international ON-OFF</div> <div>N Large dot</div> <div>P "O -" international ON-OFF</div>	<div>Contact Rating</div> <div>QF Silver</div> <div>Lamp Rating</div> <div>(NONE) No lamp</div> <div>6 LED</div> <div>7 125 VAC neon</div> <div>8 250 VAC neon</div>
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\* "J3" illuminated switches are not available with actuator markings



# DA Series Miniature Single Pole Rocker Switches

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
								
		C&K marking on opposite side			C&K marking on opposite side			
SP	DA101	ON	NONE	ON	2-3	N/A	2-1	
	DA102	ON	NONE	OFF				  <p>OR</p> <p>For 7 &amp; 8 Illuminated Versions Only</p>
	DA103	ON	OFF	ON				 <p>For 6 Illuminated Versions Only</p>

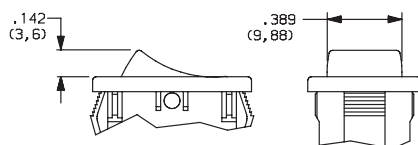


```

graph LR
    Node1[ ] --> Node2[ ]
    Node2 --> Node3[ ]
    Node3 --> Node4[ ]
    Node4 --> Node5[ ]
    Node5 --> Node6[ ]
    Node6 --> Node7[ ]
    Node7 --> Node8[ ]
    Node8 --> Node9[ ]
    Node9 --> Node10[ ]
    Node10 --> Null[ ]
    style Node1 fill:#000,stroke:#000
    style Node2 fill:#fff,stroke:#000
    style Node3 fill:#fff,stroke:#000
    style Node4 fill:#fff,stroke:#000
    style Node5 fill:#fff,stroke:#000
    style Node6 fill:#fff,stroke:#000
    style Node7 fill:#fff,stroke:#000
    style Node8 fill:#fff,stroke:#000
    style Node9 fill:#fff,stroke:#000
    style Node10 fill:#fff,stroke:#000
    style Null fill:#fff,stroke:#000
  
```

**J1** **ROCKER**

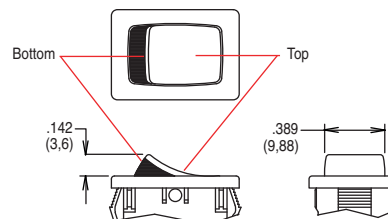
**\*J3** ILLUMINATED ROCKER



**NOTE:** J3 actuator available with DA102 switch functions, 7&8 lamp ratings and not available with O2 and A termination options.

\* J3 actuator not available with markings

**J2** TWO-TONE ROCKER



**NOTE:**

1. Available with DA102 switch function only.
2. Available with None or P actuator marking options only.

# Rocker



# G



### Third Angle Projection

Dimensions are shown: Inches (mm)

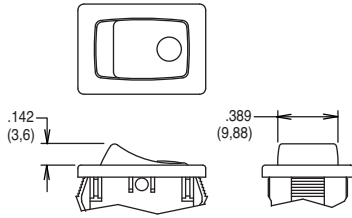
*Specifications and dimensions subject to change*



# DA Series Miniature Single Pole Rocker Switches

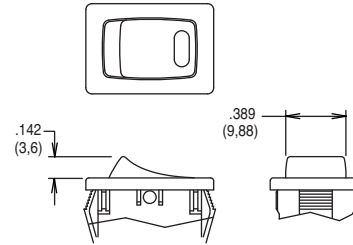
## ACTUATOR

### J4 CIRCLE, ILLUMINATED ROCKER



**NOTE:** Available with DA102 switch function and 7 & 8 lamp ratings combinations only. Not available with O2 and A termination options.

### J5 OVAL, ILLUMINATED ROCKER

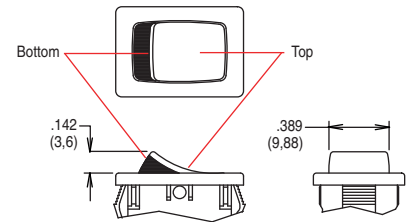


**NOTE:** Available with DA102 switch function and 6 lamp rating combinations only. Not available with O2 and A termination options.

## ACTUATOR COLOR

	OPTION CODE	ACTUATOR COLOR
	2	BLACK
J1 only	1	WHITE
	3	RED
	R	RED, ILLUMINATED
	A	AMBER, ILLUMINATED
J3, J4, J5 only	G	GREEN, ILLUMINATED

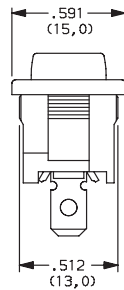
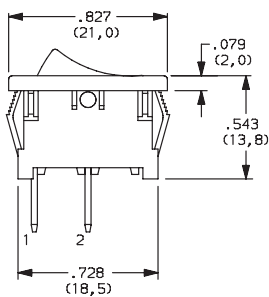
	OPTION CODE	ACTUATOR COLOR TOP	ACTUATOR COLOR BOTTOM
	1	WHITE	RED
J2 only	2	WHITE	BLACK
	3	RED	WHITE
	4	BLACK	WHITE
	5	BLACK	RED



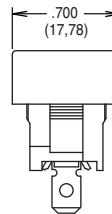
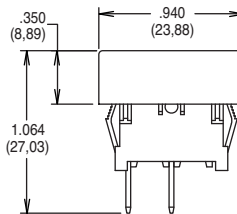
## MOUNTING STYLE/COLOR

### S2 SNAP-IN, BLACK

### S1 SNAP-IN, WHITE

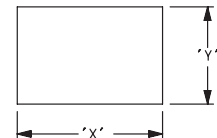


### G2 GUARD, BLACK



**NOTE:** Available with DA10X switch functions only.

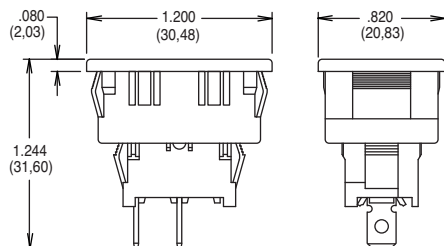
### S2, S1 & G2 PANEL MOUNTING



PANEL THICKNESS	"X"	"Y"
0.030-0.049 (0,75-1,25)	0.756-.004 (19,2-0,1)	0.512+.004 (13,0+0,1)
0.049-0.079 (1,25-2,0)	0.764-.004 (19,4-0,1)	0.512+.004 (13,0+0,1)
0.079-0.118 (2,0-3,0)	0.779-.004 (19,8-0,1)	0.512+.004 (13,0+0,1)

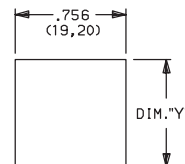
Actuator shown in Pos. 1

### B2 RECESSED SNAP-IN BRACKET, BLACK

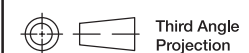


**NOTE:** Available with DA10X switch functions only.

### B2 PANEL MOUNTING



PANEL THICKNESS	"Y"
0.030-0.049 (0,75-0,25)	1.068 (27,13)
0.049-0.079 (1,25-2,0)	1.076 (27,33)
0.079-0.118 (2,0-3,0)	1.092 (27,74)



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

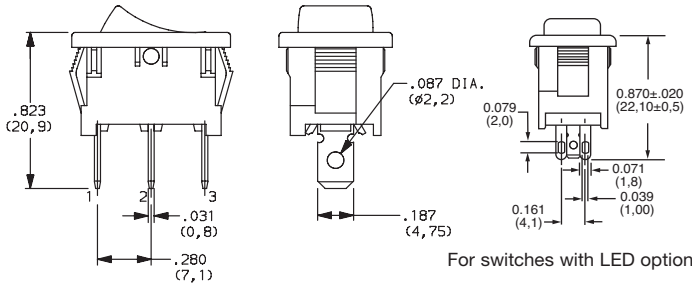
www.ck-components.com



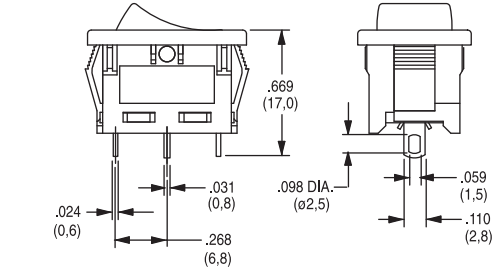
# DA Series Miniature Single Pole Rocker Switches

## TERMINATION

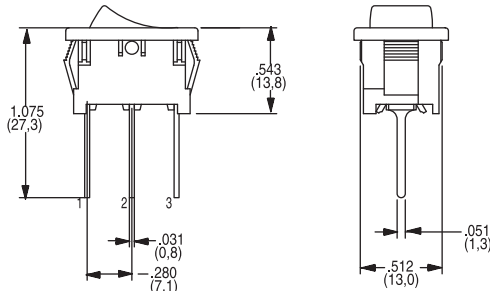
### 15 .187" QUICK CONNECT



### 17 SOLDER LUG

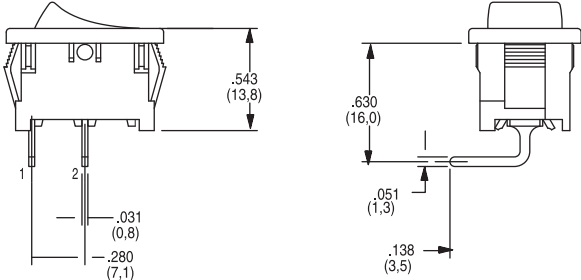


### 02\* THRU-HOLE



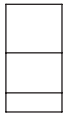
\* NOTE - O2 and A termination options not offered with J3, J4 or J5 actuator options.

### A\* RIGHT ANGLE



## ACTUATOR MARKING

### NONE NO MARKING



### D ON-OFF



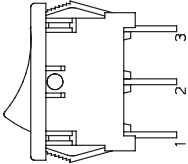
### H O I



### N LARGE DOT



### P O -



All models shown in Pos. 1  
Markings not available with J3 actuator

NOTE: Orientation of actuator marking and terminals.

## CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
QF	SILVER	POWER	16 AMPS @ 125 VAC; 1/3 HP; 10 AMPS @ 250 VAC; 1/2 10 AMPS @ 125 VAC, 6 AMPS @ 250 VAC

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

## LAMP RATING

### (NONE) NO LAMP

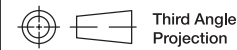
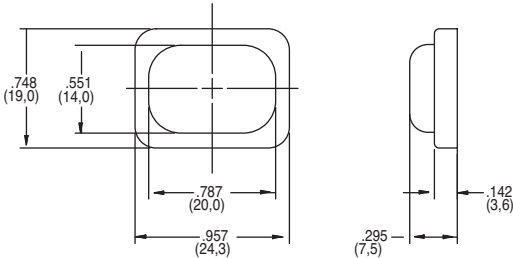
6 LED RATING @ 10 mA  $V_F=1.85V$

7 125 VAC 33kΩ NEON

8 250 VAC 150kΩ NEON

## ACCESSORIES

### 216C00000 IP65 SPLASH PROOF RUBBER BOOT



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

www.ck-components.com



# D Series Miniature Snap-in Power Rocker Switches

## Features/Benefits

- **Momentary and maintained models**
- **PC and quick connect terminals**
- **Recessed bracket available — prevents accidental actuation**
- **RoHS compliant**

## Typical Applications

- **Small appliances**
- **Computers and peripherals**
- **Medical instrumentation**



UL 61058-1



## Specifications

CONTACT RATING:

D101, D102, D103, D105, D108, D201, D202, D203

GP (general purpose)

4 AMPS 125 VAC 50/60 Hz T85 10,000 cycles

2 AMPS 250 VAC 50/60 Hz T85 10,000 cycles

R (resistive)

4 AMPS 30 VDC T85 10,000 cycles

D501, D502, D503, D508, D601, D602, D608

GP (general purpose)

10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles

5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles

R (resistive)

10 AMPS 30 VDC T85 10,000 cycles

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

INSULATION RESISTANCE:  $10^9 \Omega$  min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

## Materials

ACTUATOR & HOUSING: 6/6 nylon (UL 94V-2), color black, finish: matte.

MOVABLE CONTACTS: D10X and D20X Models: Copper, silver plated. D50X and D60X Models: Coin silver, silver plated.

STATIONARY CONTACTS AND TERMINALS: Copper or brass, silver plated.

CONTACT SPRING: Music wire or stainless steel.

OPERATING TEMPERATURE: -30°C to +65°C

**NOTE:** Specifications and materials listed above are for standard switches. For information on specific and custom switches, consult Customer Service Center.

## Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-62 through G-65. For additional options not shown in catalog, consult Customer Service Center.

### Switch Function

- D101** SPDT, On-None-On
- D102** SPST, On-None-Off
- D103** SPDT, On-Off-On
- D105** SPDT, Mom.-Off-Mom.
- D108** SPDT, Mom.-None-On
- D201** DPDT, On-None-On
- D202** DPST, On-None-Off
- D203** DPDT, On-Off-On
- D501** SPDT, On-None-On
- D502** SPST, On-None-Off
- D503** SPDT, On-Off-On
- D508** SPDT, Mom.-None-On
- D601** DPDT, On-None-On
- D602** DPST, On-None-Off
- D608** DPDT, Mom.-None-On

### Actuator

- J1** Rocker
- J5** Lever

### Actuator Color

- 2** Black
- 1** White
- 3** Red

### Mounting Style/Color

- S2** Snap-in, black
- B2** Recessed snap-in actuator guard, black
- G2** Actuator guard, black
- S1** Snap-in, white

### Terminations

- 15** Quick connect
- A** Right angle, PC thru-hole
- 02** PC Thru-hole
- 05** Twisted quick connect
- 06** Extended PC thru-hole
- 17** Wireable quick connect

### Actuator Markings

- NONE** No marking
- D** ON-OFF
- H** 0 I
- N** Large dot
- P** 0 -
- R** Red rectangle on end
- U** Large dot on end









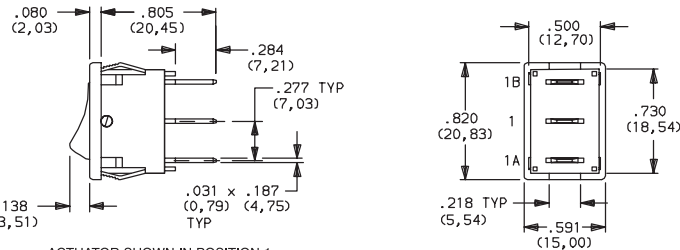

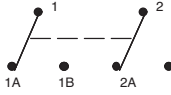
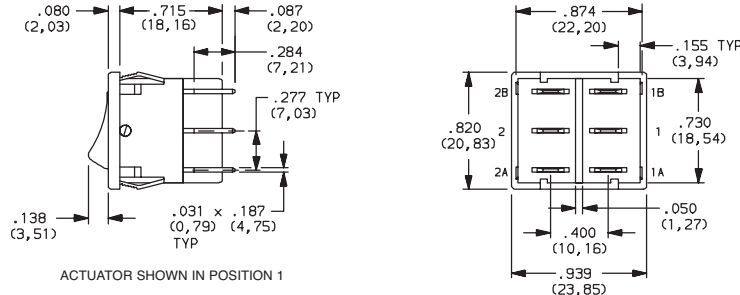
### Contact Material

- QA** Silver



D Series  
Miniature Snap-in Power Rocker Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	AMP RATING*	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC		
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3			
											
SP	D102 D502	4 10	ON	NONE	OFF	1-1A	N/A	OPEN	SPST 		
	D101 D501	4 10	ON	NONE	ON			1-1B			
	D103 D503	4 10		OFF							
	D105	4	MOM.	OFF	MOM.						
	D108 D508	4 10	MOM.	NONE	ON						
<div>SPDT</div> <div><p>ACTUATOR SHOWN IN POSITION 1</p><p>TERMINAL NOS. FOR REF. ONLY</p></div>											
Part number shown: D101J12S215QA											
DP	D202 D602	4 10	ON	NONE	OFF	1-1A, 2-2A	N/A	OPEN	DPST 		
	D201 D601	4 10	ON	NONE	ON			1-1B, 2-2B			
	D203	4		OFF							
	D608	10	MOM.	NONE							
	<div>DPDT</div> <div><p>ACTUATOR SHOWN IN POSITION 1</p><p>TERMINAL NOS. FOR REF. ONLY</p></div>										
Part number shown: D201J12S215QA											

MOM. = Momentary  
\*AMP RATING: see G-61  
See CONTACT MATERIALS, page G-65.



Rocker



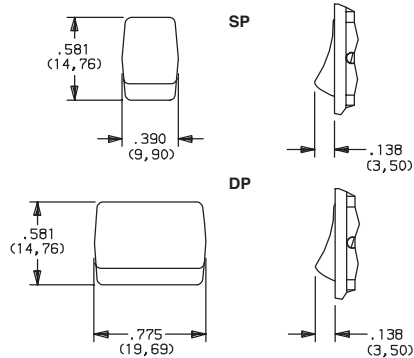
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

www.ck-components.com

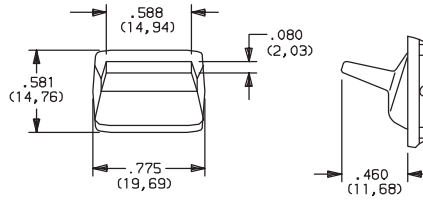
# D Series Miniature Snap-in Power Rocker Switches



## J1 ROCKER



## J5 LEVER



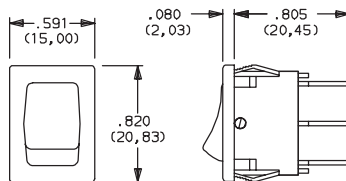
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

**NOTE:** Actuator finish: matte. Other colors available, consult Customer Service Center.

'J5' actuator available only with DP models D201, D202, D601 and D602.

## MOUNTING STYLE/COLOR

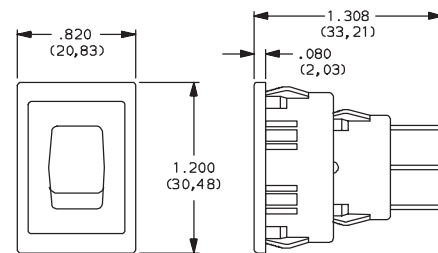
### S SNAP-IN



OPTION CODE	HOUSING COLOR
2	(STD.) BLACK
1	WHITE

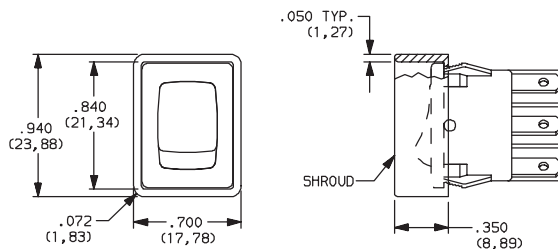
**NOTE:** Frame finish on housing: matte. Other colors available, consult Customer Service Center.

### B2 RECESSED SNAP-IN ACTUATOR GUARD, BLACK



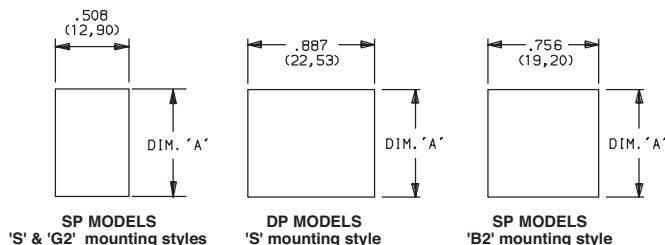
**NOTE:** Vertical mount, SP models only.

### G2 ACTUATOR GUARD, BLACK



**NOTE:** Vertical mount, SP models only.

### PANEL MOUNTING



PANEL THICKNESS	DIM 'A' SP & DP MODELS 'S' MOUNTING STYLE	DIM 'A' WITH 'G2' OPTION SP MODELS ONLY	DIM 'A' SP MODELS 'B' MOUNTING STYLE
.030-.049 (0,76) (1,24)	.756 (19,20)	.764 (19,41)	1.068 (27,13)
.049-.079 (1,24) (2,01)	.764 (19,41)	.780 (19,81)	1.076 (27,33)
.079-.118 (2,01) (3,00)	.780 (19,81)	n/a	1.092 (27,74)

**NOTE:** Blank insert available for SP models only, see page G-65.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

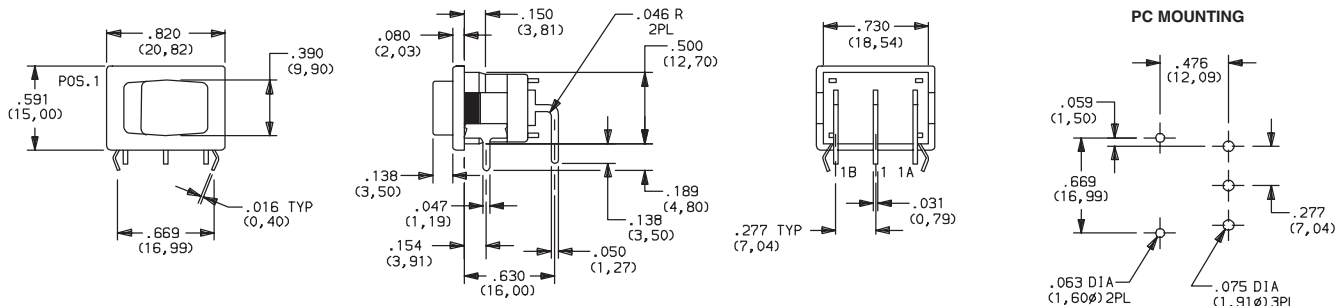
www.ck-components.com



# D Series Miniature Snap-in Power Rocker Switches

## TERMINATIONS

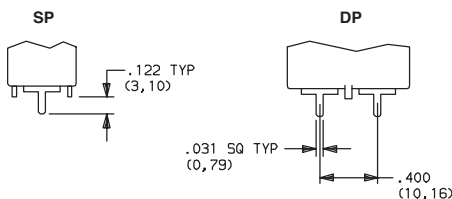
### A RIGHT ANGLE, PC THRU-HOLE



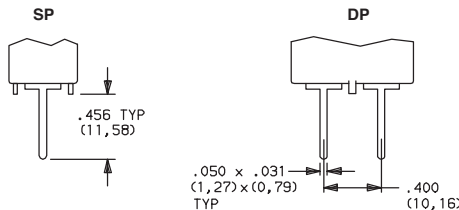
Available with D101, D102, D501, D502 SP models only.

## TERMINATIONS

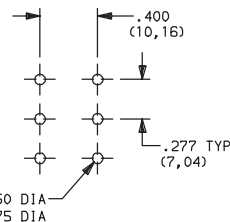
### 02 PC THRU-HOLE



### 06 EXTENDED PC THRU-HOLE



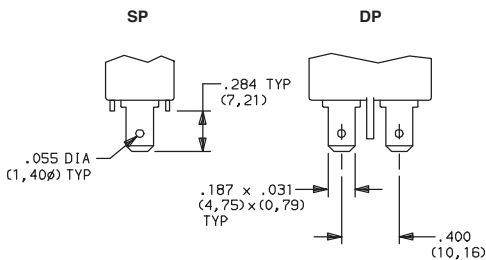
### PC MOUNTING (02 and 06)



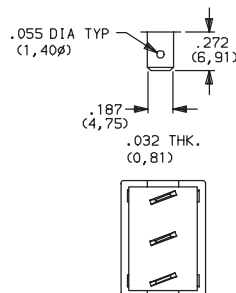
Available with DX01 and DX02 models only.

Available with DX01 and DX02 models only.

### 15 QUICK CONNECT

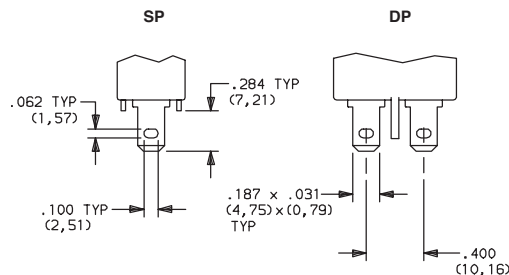


### 05 TWISTED QUICK CONNECT



NOTE: Terminals are twisted.

### 17 WIRABLE QUICK CONNECT



Available with DX01 and DX02 models only.

Available with DX01 and DX02 models only.

## ACTUATORS

### NONE NO MARKING

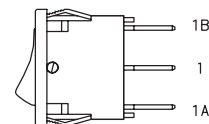
### D ON-OFF

### H O |

### N LARGE DOT

### P O -

### R RED RECTANGLE U LARGE DOT ON END ON END



NOTE: Orientation of actuator markings and terminals.

'D, H, P & U' marking options: marking color white, standard for all actuator colors except white. Black marking color, standard for white actuators. 'R & N' marking option: red marking color, standard. Consult Customer Service Center for other available marking colors.



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

www.ck-components.com

# D Series Miniature Snap-in Power Rocker Switches

## CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS
QA	SILVER <sup>1</sup>	D101, D102, D103, D105, D108, D201, D202, D203
		GP (general purpose) 4 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
		2 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
		R (resistive) 4 AMPS 30 VDC T85 10,000 cycles
		D501, D502, D503, D508, D601, D602, D608
		GP (general purpose) 10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
		5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
		R (resistive) 10 AMPS 30 VDC T85 10,000 cycles

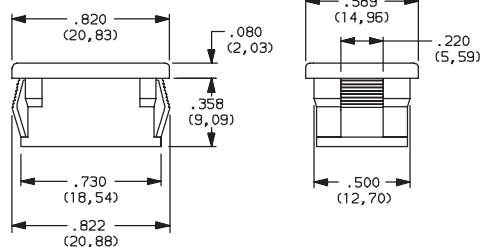
<sup>1</sup>MOVABLE CONTACT: D10X and D20X MODELS: Copper, silver plated.  
D50X and D60X MODELS: Coin silver, silver plated.

STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.



## AVAILABLE HARDWARE

Insert  
SP Only



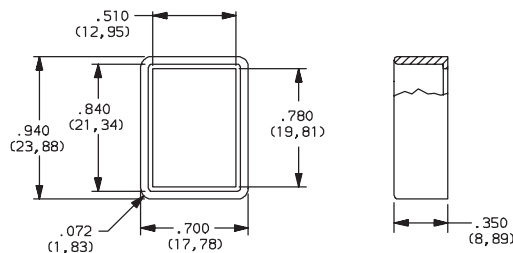
PART NO.  
**057190200** BLACK  
Material: Nylon 6/6  
Finish: Matte

Recessed Actuator Guard,  
SP Only



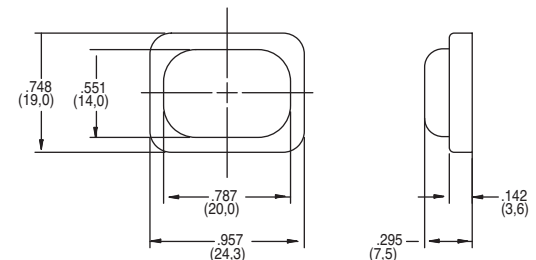
**599D02000** BLACK  
Material: 6/6 Nylon  
Finish: Matte

Actuator Guard



PART NO.  
**104C22000**  
Material: PBT thermoplastic  
Finish: Matte

PART NO.  
**216C00000** IP65 SPLASH PROOF RUBBER  
BOOT





# DM Series

## Miniature 2 Pole Power Rocker Switches



### Features/Benefits

- 3 AMPS to 10 AMPS
- Quick connect terminals
- Double pole in miniature size
- Recessed bracket available—prevents accidental actuation
- RoHS compliant

### Typical Applications

- Computers
- Appliances
- Electric tools

UL 61058-1  

### Specifications

CONTACT RATING:  
DM21, DM22:  
GP (general purpose)  
3 AMPS 125 VAC 50/60 Hz T85 10,000 cycles  
2 AMPS 250 VAC 50/60 Hz T85 10,000 cycles  
R (resistive)  
3 AMPS 30 VDC T85 10,000 cycles  
DM61, DM62:  
GP (general purpose)  
10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles  
5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles  
R (resistive)  
10 AMPS 30 VDC T85 10,000 cycles  
ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.  
INSULATION RESISTANCE:  $10^9 \Omega$  min.  
DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.  
OPERATING TEMPERATURE: -20°C to +65°C

### Materials

HOUSING & ACTUATOR: 6/6 nylon (UL94V-2), black.  
MOVABLE CONTACTS: DM2X Models: Copper, silver plated.  
DM6X Models: Coin silver, silver plated.  
STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.  
CONTACT SPRING: Music wire or stainless steel.

**NOTE:** Any models supplied with Q contact material are RoHS compliant.

**NOTE:** Specifications and materials listed above are for standard switches. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-71 and G-73. For additional options not shown in catalog, consult Customer Service Center.

<div>Switch Function</div> <div>DM21 DPDT, On-On</div> <div>DM22 DPST, On-Off</div> <div>DM61 (STD.) DPDT, On-On</div> <div>DM62 (STD.) DPST, On-Off</div>	<div>Actuator</div> <div>J1 Rocker</div> <div>Actuator Color</div> <div>2 Black</div> <div>1 White</div>	<div>Housing Style/Color</div> <div>S2 Snap-in, black</div> <div>B2 Recessed snap-in actuator guard, black</div> <div>G2 Actuator guard, black</div>	<div>Terminations</div> <div>05 Quick connect</div> <div>Actuator Markings</div> <div>NONE No marking</div> <div>D ON-OFF</div> <div>H 0 I</div> <div>P 0 -</div>	<div>Contact Material</div> <div>Q Silver</div>
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Rocker







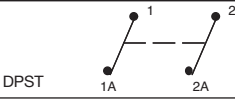
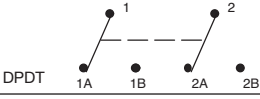
G

C&K

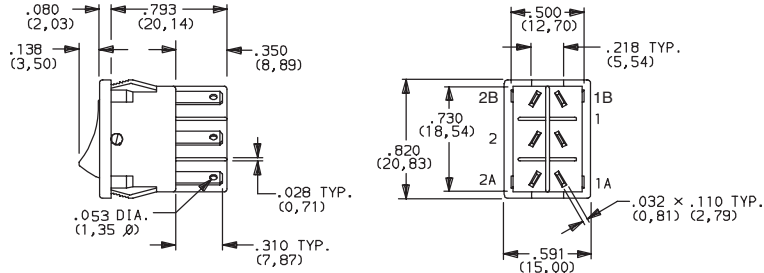
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# DM Series Miniature 2 Pole Power Rocker Switches

## SWITCH FUNCTION

NO. POLES	MODEL NO.	AMP RATING*	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
			POS. 1	POS. 2	POS. 1	POS. 2	
							
DP	DM22	3	ON	OFF	1-1A, 2-2A	OPEN	DPST 
	DM62	10					
	DM21	3	ON	ON	1-1A, 2-2A	1-1B, 2-2B	DPDT 
	DM61	10					

**DPDT**




Actuator shown in pos. 1 – 'ON' position.

Part number shown: DM61J12S205Q

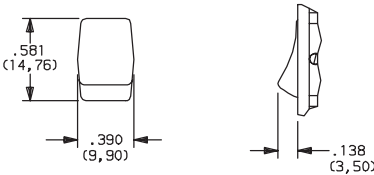
TERMINAL NUMBERS FOR REFERENCE ONLY

RATINGS: See page G-72 for complete ratings.

 UL 61058-1 tested to 30C temperature rise @ 6,000 cycles.

## ACTUATOR

**J1**   ROCKER

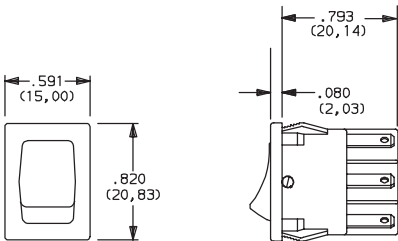


OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE

**NOTE:** Actuator finish: matte. Other colors available, consult Customer Service Center.

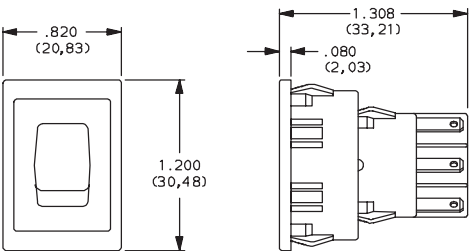
## HOUSING STYLE/COLOR

**S2**   SNAP-IN, BLACK



**NOTE:** Housing finish: matte. Other colors available, consult Customer Service Center.

**B2**   RECESSED SNAP-IN ACTUATOR GUARD, BLACK



Third Angle  
Projection

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



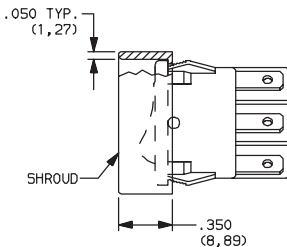
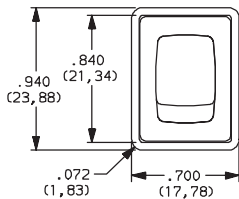
# DM Series

## Miniature 2 Pole Power Rocker Switches

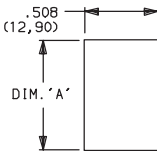
### HOUSING STYLE/COLOR

**G2** ACTUATOR GUARD, BLACK

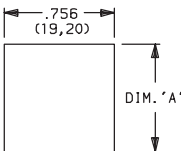
**NEW!**



### PANEL MOUNTING



'S2' & 'G2' housing styles



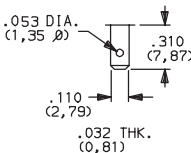
'B2' housing style

**NOTE:** Blank insert available for SP models only, see page H-76.

PANEL THICKNESS	DIM 'A' 'S2' & 'G2' HOUSING STYLES	DIM 'A' 'G2' OPTION SP MODELS ONLY	DIM 'A' 'B2' HOUSING STYLES
.030-.049 (0,76) (1,24)	.756 (19,20)	0.764 (19,41)	1.068 (27,13)
.049-.079 (1,24) (2,01)	.764 (19,41)	0.780 (19,81)	1.076 (27,33)
.079-.118 (2,01) (3,00)	.780 (19,81)	n/a	1.092 (27,74)

### TERMINATIONS

**05** QUICK CONNECT



### ACTUATOR MARKINGS

**NONE** NO MARKING



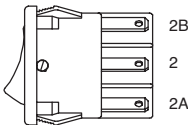
**D** ON-OFF



**H** O I



**P** O -



**NOTE:** Orientation of actuator markings and terminals.

'D' & 'P' marking options: marking color white, standard for all actuator colors except white actuators. Black marking color standard for white actuators. Consult Customer Service Center for other available marking colors.

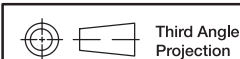
### CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
<b>Q</b>	SILVER 1,2	DM21, DM22: GP (general purpose)	3 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
			2 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
		R (resistive)	3 AMPS 30 VDC T85 10,000 cycles
		DM61, DM62: GP (general purpose)	10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
			5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
		R (resistive)	10 AMPS 30 VDC T85 10,000 cycles

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

**NOTE:** Any models supplied with Q contact material are RoHS compliant.

- <sup>1</sup> MOVABLE CONTACT: DM2X Models: Copper, silver plated.  
DM6X Models: Coin silver, silver plated.  
<sup>2</sup> STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.



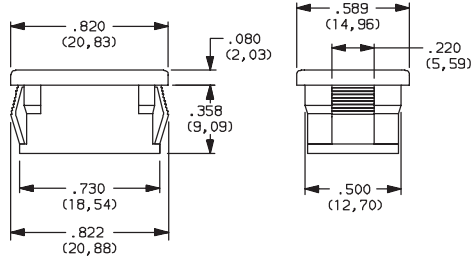
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

[www.ck-components.com](http://www.ck-components.com)

# DM Series Miniature 2 Pole Power Rocker Switches

## AVAILABLE HARDWARE

Insert



**PART NO.**  
**057190200**

Material: Nylon 6/6  
Finish: Matte

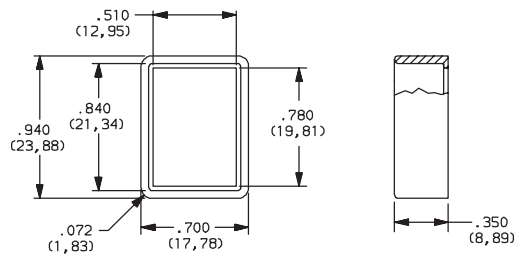
Recessed Actuator Guard



**PART NO.**  
**599D02000**

Material: 6/6 Nylon  
Finish: Matte

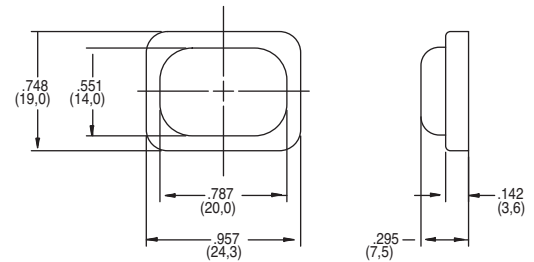
Actuator Guard



**PART NO.**  
**104C22000**

Material: PBT thermoplastic  
Finish: Matte

**PART NO.**  
**216C00000** IP65 SPLASH PROOF RUBBER BOOT



## DM Series Miniature Illuminated Power Rocker Switches



## Features/Benefits

- **3 AMPS to 10 AMPS**
- ***Illuminated LED***
- ***Positive detent***
- ***RoHS compliant***

## Typical Applications

- **Instrumentation**
- **Industrial**
- **Office machines**



## Specifications

CONTACT RATING: DM14 and DM24 Models: 3 AMPS @ 125 V AC; 2 AMPS @ 250 V AC. DM54 and DM64 Models: 10 AMPS @ 125 V AC; 5 AMPS @ 250 V AC (UL).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

INSULATION RESISTANCE:  $10^9 \Omega \text{ min.}$

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

**NOTE:** Any models supplied with Q contact material are RoHS compliant.

**NOTE:** Specification and materials listed above are for standard switches.  
For information on specific and custom switches, consult Customer Service Center.

## Materials

HOUSING: 6/6 nylon (UL94V-2), black.

ACTUATOR: 6/6 nylon (UL94V-2), black.

MOVABLE CONTACTS: DM14 and DM24 Models: Copper, silver plated. DM54 and DM64 Models: Coin silver, silver plated.

STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

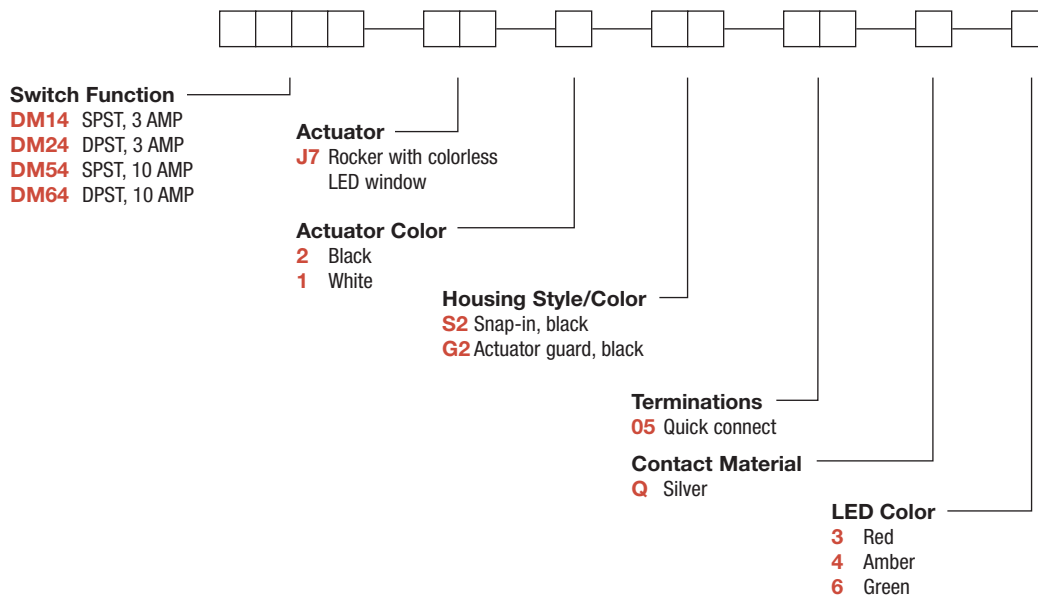
LED TERMINALS: Brass, unplated.

CONTACT SPRING: Music wire or stainless steel.

OPERATING TEMPERATURE: -20°C to +65°C

## Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-71 and G-73. For additional options not shown in catalog, consult Customer Service Center.



# Rocker



# G



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# DM Series Miniature Illuminated Power Rocker Switches

## SWITCH FUNCTION



NO. POLES	MODEL NO.	AMP RATING*	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
			POS. 1	POS. 2	POS. 1	POS. 2	
SP	<b>DM14</b> <b>DM54</b>	3 10	ON	OFF	1-1A	OPEN	SPST 
DP	<b>DM24</b> <b>DM64</b>	3 10	ON	OFF	1-1A, 2-2A	OPEN	DPST 

**DPDT**

Actuator shown in pos. 1 – 'ON' position.

Part number shown: DM24J72S205Q3

TERM. NOS. FOR REFERENCE ONLY  
SPST models (DM14 & DM54), omit terminals 2 and 2A.

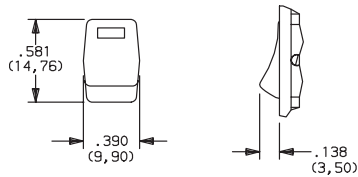
\* RATINGS: see page G-70



## ACTUATOR



**J7** ROCKER WITH COLORLESS LED WINDOW



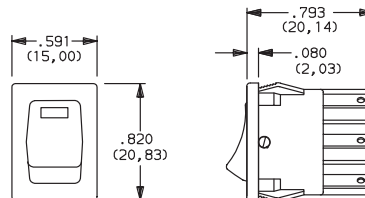
OPTION CODE	ACTUATOR COLOR
<b>2</b>	BLACK
<b>1</b>	WHITE

**NOTE:** Other colors available, consult Customer Service Center.

## HOUSING STYLE/COLOR



**S2** SNAP-IN, BLACK



**NOTE:** Housing finish: matte. Other colors available, consult Customer Service Center.



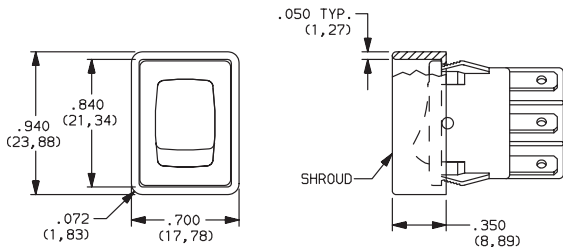
# DM Series

## Miniature Illuminated Power Rocker Switches

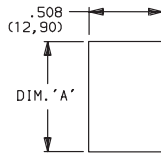
### HOUSING STYLE/COLOR

**G2** ACTUATOR GUARD, BLACK

**NEW!**



#### PANEL MOUNTING



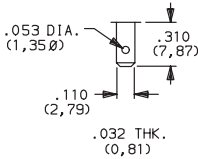
'S2' & 'G2' housing style

NOTE: Blank insert available for SP models only, see page H-80.

PANEL THICKNESS	DIM 'A' 'S2' & 'G2' HOUSING STYLES	DIM 'A' with 'G2' option SP MODELS ONLY
.030-.049 (0,76) (1,24)	0.756 (19,20)	0.764 (19,41)
.049-.079 (1,24) (2,01)	0.764 (19,41)	0.780 (19,81)
.079-.118 (2,01) (3,00)	.780 (19,81)	n/a

### TERMINATIONS

**05** QUICK CONNECT



### CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
<b>Q</b>	SILVER 1,2	POWER	DM14 and DM24 Models: 3 AMPS @ 125 V AC; 2 AMPS @ 250 V AC. DM54 and DM64 Models: 10 AMPS @ 125 V AC; 5 AMPS @ 250 V AC.

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- <sup>1</sup> MOVABLE CONTACTS: DM14 and DM24 models: Copper, silver plated.  
DM54 and DM64 models: Coin silver, silver plated.
- <sup>2</sup> STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

NOTE: Any models supplied with Q contact material are RoHS compliant.



### LED COLOR

OPTION CODE	LED COLOR	FORWARD V <sub>FD</sub>	CURRENT I <sub>LED</sub>	REVERSE V <sub>R</sub>	INTENSITY M <sub>CD</sub>	RECOMMENDED RESISTOR @ VOLTAGE		
						5V	12V	24V
<b>3</b>	Red	2.1	10	4V	1.6 typ.	270	1K	2.2K
<b>4</b>	Amber	2.2	20	4V	2.5 typ.	150	510	1.2K
<b>6</b>	Green	2.1	20	4V	2.0 typ.	150	510	1.2K



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

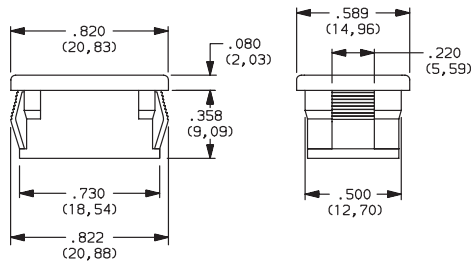
www.ck-components.com



# DM Series Miniature Illuminated Power Rocker Switches

## AVAILABLE HARDWARE

Blank Insert



**PART NO.**  
**057190200**

Material: Zinc nylon 6/6  
Finish: Matte

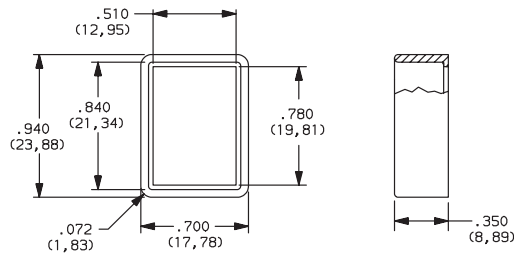
Recessed Bracket



**PART NO.**  
**599D02000**

Material: 6/6 Nylon  
Finish: Matte

Actuator Guard



**PART NO.**  
**104C22000**

Material: PBT thermoplastic  
Finish: Matte

# DF Series

## Power Rocker Switches



### Features/Benefits

- Power switching up to 16 AMPS
- Sub-panel and Front-panel mounting
- PC and quick connect terminals
- Multi-position and multi-pole function
- RoHS compliant

### Typical Applications

- Computers
- Power supplies
- Appliances
- Fitness equipment
- Off-road vehicles



### Specifications

CONTACT RATING: 16 AMPS @ 125, 250 V AC; 1/4 HP @ 125 V AC; 1/2 HP @ 250 V AC; 6 AMPS @ 48 V DC, 2 AMPS @ 60 V DC, 11 AMPS @ 30 V DC

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

INSULATION RESISTANCE:  $10^9 \Omega$  min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -20°C to +85°C

### Materials

HOUSING & ACTUATOR: 6/6 nylon (UL 94V-2), black, finish: matte.

CONTACTS: Fine silver, silver plated.

TERMINALS: Copper, silver plated.

CONTACT SPRING: Music wire or stainless steel.

**NOTE:** Specifications and materials listed above are for standard switches. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-79 thru G-81. For additional options not shown in catalog, consult Customer Service Center.

<div>Switch Function</div> <div>DF52 SPST, Off-On</div> <div>DF62 DPST, Off-On</div> <div>DF72 SPDT, Off-On-On</div>	<div>Actuator</div> <div>J1 Rocker</div> <div>Actuator Color</div> <div>2 Black</div> <div>1 White</div> <div>Housing Style/Color</div> <div>S2 Sub-panel, black</div> <div>G2 Actuator guard, black</div> <div>P2 Panel, black</div> <div>S1 Sub-panel, white</div>	<div>Terminations</div> <div>15 Quick connect</div> <div>A Right angle, PC thru-hole</div> <div>Actuator Markings</div> <div>NONE No marking</div> <div>D ON-OFF</div> <div>H 0 I</div> <div>P 0 -</div> <div>Contact Material</div> <div>QA Silver</div>
<div></div>	<div></div>	<div></div>

Rocker



G



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

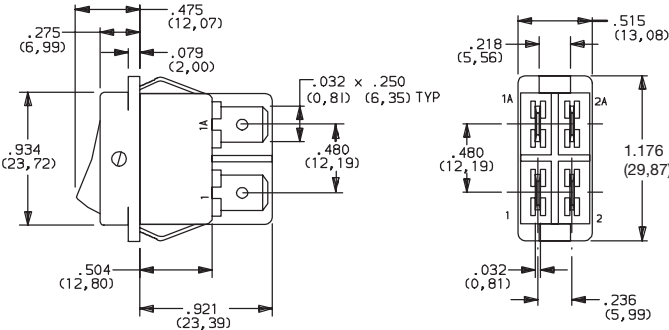
DF Series  
Power Rocker Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS. 1	POS. 2	POS. 1	POS. 2	
SP	DF52	OFF	ON	OPEN	1-1A	SPST 
DP	DF62	OFF	ON	OPEN	1-1A, 2-2A	DPST 

NO. POLES	MODEL NO.	POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	SCHEMATIC
SP	DF72	OFF	ON	ON	OPEN	1 / 2-2A	1 / 2-1A 1 / 2-2A	

DPST



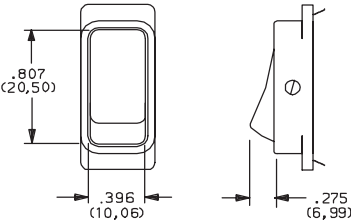
Actuator shown in Pos. 1

Part number shown: DF62J12S215QA

All models

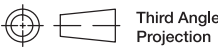
ACTUATOR

J1 ROCKER



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE

NOTE: Actuator finish: matte. Other colors available, consult Customer Service Center.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

www.ck-components.com



# DF Series Power Rocker Switches

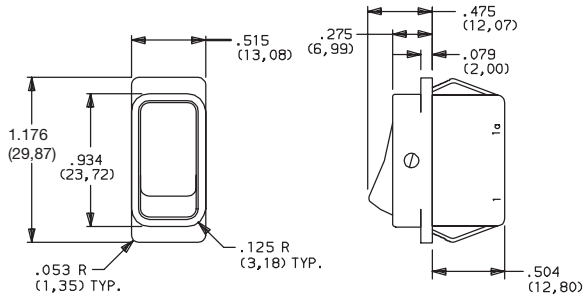
## HOUSING STYLE/COLOR



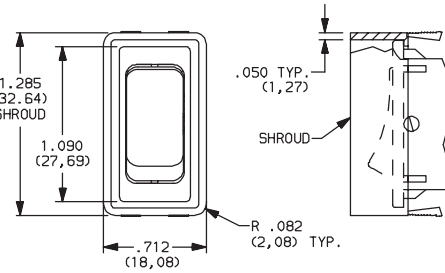
**S** SUB-PANEL

**G2** ACTUATOR GUARD

**NEW!**

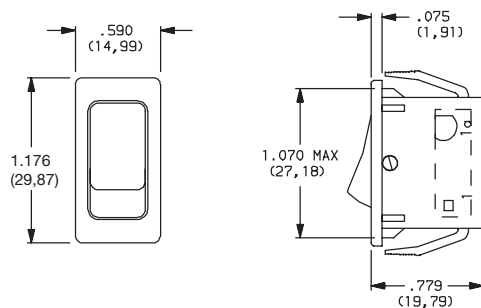


**NOTE:** DF52 & DF62 models only.



**NOTE:** Not available with 'A' termination.  
Available in black only.

**P** PANEL



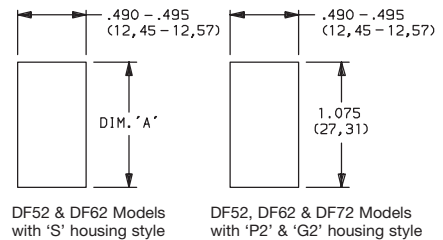
**NOTE:** Not available with 'A' termination.  
Available in black only.

OPTION CODE	HOUSING COLOR
<b>2</b>	(STD.) BLACK
<b>1</b>	WHITE

**NOTE:** Housing finish: matte. Other colors available, consult Customer Service Center.

## PANEL MOUNTING

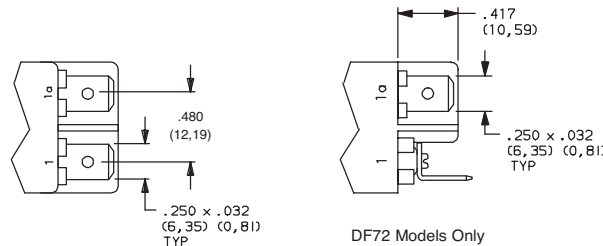
PANEL THICKNESS	DIM 'A'
.029-.048 (0,74) (1,22)	1.021 (25,93)
.048-.078 (1,22) (1,98)	1.029 (26,14)
.078-.117 (1,98) (2,97)	1.045 (26,54)
.075-.140 (1,91) (3,56)	1.075 (27,31)



## TERMINATIONS

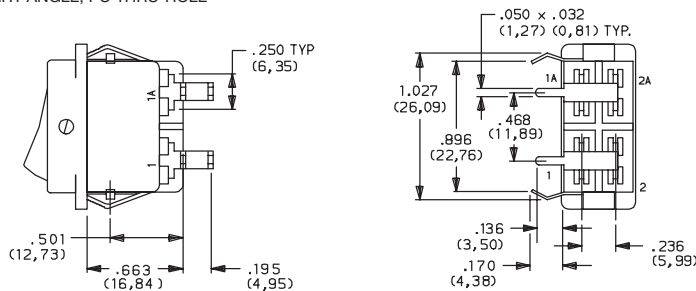


## 15 QUICK CONNECT



DF72 Models Only

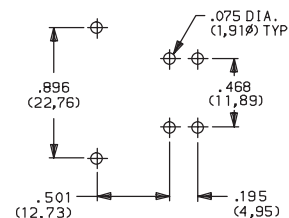
**A** RIGHT ANGLE, PC THRU-HOLE



Actuator shown in Pos. 1

**NOTE:** DF52 and DF62 Models Only

## PC MOUNTING



Third Angle Projection

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

**www.ck-components.com**



G

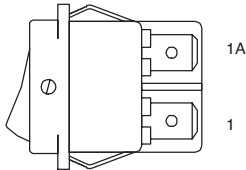


DF Series  
Power Rocker Switches

ACTUATOR MARKINGS



**NONE** NO MARKING      **D** ON-OFF      **H** O |      **P** O -



**NOTE:** Orientation of actuator markings and terminals.

'D', 'H', & 'P' marking options: marking color white, standard for all actuator colors except white.  
Marking color black, standard for white actuators. Consult Customer Service Center for other available marking colors.

CONTACT MATERIAL



OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
QA	SILVER 1,2	POWER	16 AMPS @ 125, 250 V AC; 1/4 HP @ 125 V AC; 1/2 HP @ 250 V AC; 6 AMPS @ 48 V DC (UL), 2 AMPS @ 60 V DC; 11 AMPS @ 30 V DC
			16 AMPS @ 125, 250 V AC; 1/4 HP @ 125 V AC; 1/2 HP @ 250 V AC (UL)

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

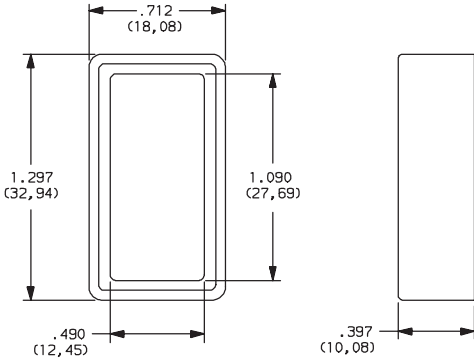
1 CONTACTS: Fine silver, silver plated.

All models 

2 TERMINALS: Copper, silver plated.

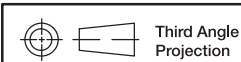
AVAILABLE HARDWARE

Actuator Guard



PART NO.  
**285B02000**

Material: Nylon 6/6  
Finish: Matte



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

[www.ck-components.com](http://www.ck-components.com)



# CR Series

## Round Single Pole Specialty Rocker Switches

### Features/Benefits

- Round actuator and body
- Nice styling
- Multiple illuminated versions available
- IP65 splash proof rubber boot option

### Typical Applications

- Appliances, small and large
- Office equipment
- Computers and peripherals
- Audio/Video equipment
- RoHS compliant



**UL** **61058-1**

### Specifications

CONTACT RATING:  
16 AMPS @ 125 VAC, 10 AMPS @ 250 VAC.  
16 AMPS @ 125 VAC, 10 AMPS @ 250 VAC.  
ELECTRICAL LIFE: 10,000 make and break cycles at full load.  
INSULATION RESISTANCE:  $10^8 \Omega$  min.  
DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.  
OPERATING TEMPERATURE: -20°C to + 85°C

### Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), matte finish.  
ILLUMINATED ACTUATOR: Polycarbonate, matte finish.  
CENTER CONTACTS: Silver plated, copper alloy.  
END CONTACTS: Silver plated AgSnO<sub>2</sub>InO<sub>3</sub>.  
ALL TERMINALS: Silver plated, copper alloy.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-83 through G-85. For additional options not shown in catalog, consult Customer Service Center.

<div>Switch Function</div> <div>CR101 SPDT On-None-On</div> <div>CR102 SPST On-None-Off</div>	<div>Actuator</div> <div>J1 Rocker</div> <div>J2* Two-tone rocker</div> <div>J3 Illuminated rocker</div> <div>J4** Circle, illuminated rocker</div> <div>J5 Oval, illuminated rocker</div> <div>JN Paddle, rocker</div> <div>JP Paddle, illuminated rocker</div>	<div>Actuator Color</div> <div>2 Black</div> <div>1 White</div> <div>3 Red</div> <div>R Red, illuminated</div> <div>A Amber, illuminated</div> <div>G Green, illuminated</div>	<div>Mounting Style/Color</div> <div>S2 Snap-in, black</div> <div>S1 Snap-in, white</div>	<div>Termination</div> <div>15 .187" quick connect</div>	<div>Contact Rating</div> <div>QF Silver</div>	<div>Lamp Rating</div> <div>(NONE) No lamp</div> <div>6 LED</div> <div>7 125 VAC neon</div> <div>8 250 VAC neon</div>
-----------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------	----------------------------------------------------------	------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------

\* Refer to table on page 84 for actuator options.

Rocker



G

**C&K**

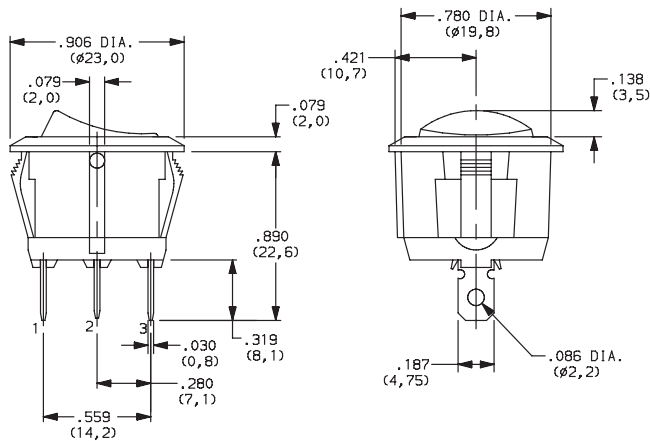
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# CR Series Round Single Pole Specialty Rocker Switches

## SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		Pos. 1	Pos. 2	Pos. 3	Pos. 1	Pos. 2	Pos. 3	
		C&K marking on opposite side			C&K marking on opposite side			
SP	CR101	ON	NONE	ON	2-3		2-1	
	CR102	ON	NONE	OFF		N/A		
								For 7 & 8 Illuminated Versions

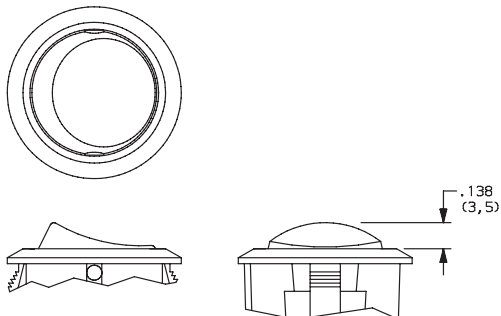


## ACTUATOR

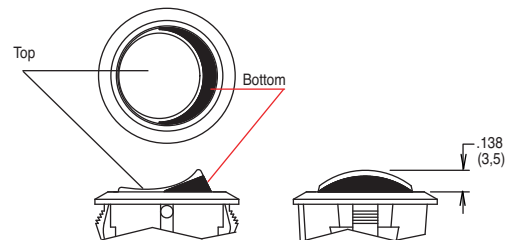


**J1** ROCKER

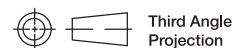
**J3** ILLUMINATED ROCKER



**J2** TWO-TONE ROCKER



**NOTE:** J3 actuator available with the combination of 7 & 8 lamp ratings and CR102 switch function only.



Third Angle  
Projection

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

**C&K**

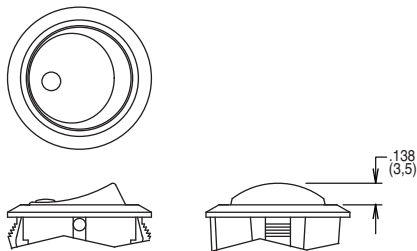


# CR Series

## Round Single Pole Specialty Rocker Switches

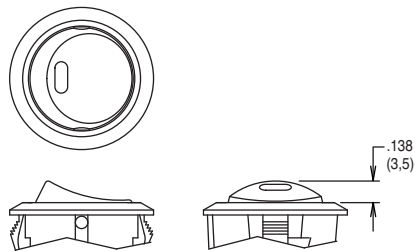
### ACTUATOR

**J4** CIRCLE, ILLUMINATED ROCKER



**NOTE:** Available with the combination of CR102 switch function and 7 & 8 lamp ratings only.

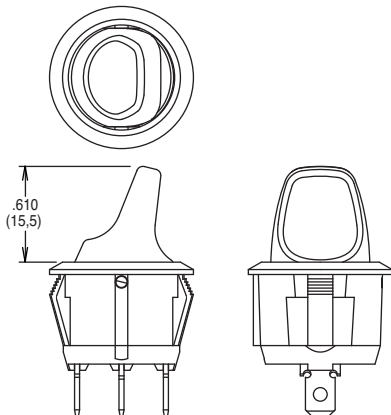
**J5** OVAL, ILLUMINATED ROCKER



**NOTE:** Available with the combination of CR102 switch function and 6 lamp rating only.

**JN** PADDLE, ROCKER

**JP** PADDLE, ILLUMINATED ROCKER

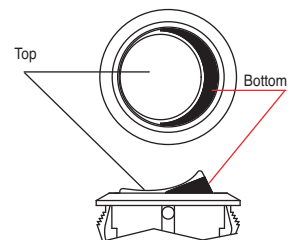


**NOTE:** JP actuator available with the combination of CR102 switch function and 7 & 8 lamp ratings only.

### ACTUATOR COLOR

ACTUATOR	OPTION CODE	ACTUATOR COLOR
<b>J1</b>	<b>2</b>	BLACK
	<b>1</b>	WHITE
	<b>3</b>	RED
<b>J3, J4</b> <b>J5, JP</b>	<b>R</b>	RED, ILLUMINATED
	<b>A</b>	AMBER, ILLUMINATED
	<b>G</b>	GREEN, ILLUMINATED

ACTUATOR	OPTION CODE	ACTUATOR COLOR	
		TOP	BOTTOM
<b>J2</b>	<b>1</b>	WHITE	RED
	<b>2</b>	WHITE	BLACK
	<b>3</b>	RED	WHITE
	<b>4</b>	BLACK	WHITE
	<b>5</b>	BLACK	RED

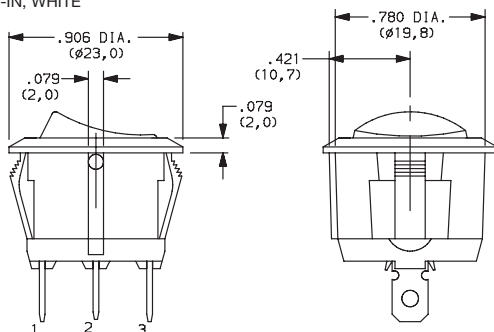


J2 actuator only

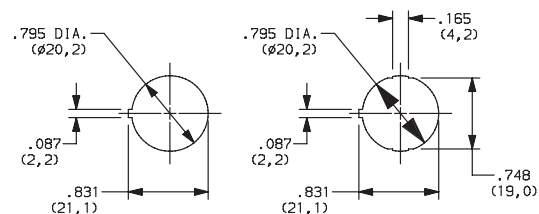
### MOUNTING STYLE/COLOR

**S2** SNAP-IN, BLACK

**S1** SNAP-IN, WHITE

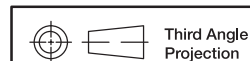


#### PANEL MOUNTING



Panel thickness:  
2.0 - 3.0 mm

Panel thickness:  
0.7 - 3.0 mm



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

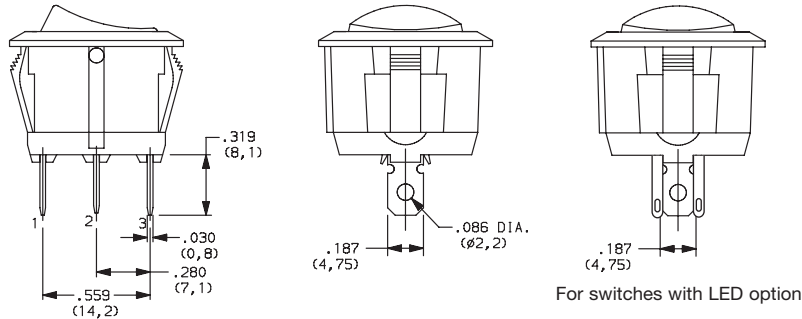
[www.ck-components.com](http://www.ck-components.com)

# CR Series Round Single Pole Specialty Rocker Switches

## TERMINATION




**15** .187" QUICK CONNECT



## CONTACT MATERIAL



OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
		POWER	
<b>QF</b>	SILVER	16 AMPS @ 125 VAC; 10 AMPS @ 250 VAC	

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

## LAMP RATING



**(NONE)** NO LAMP

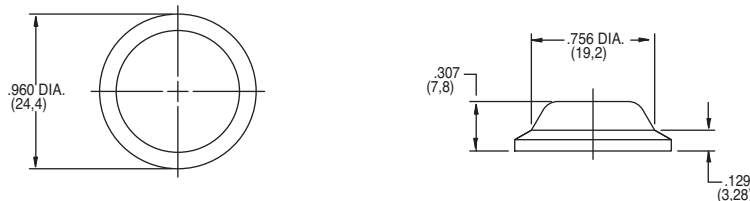
**6** LED RATING @ 10 mA  $V_f=1.85V$

**7** 125 VAC 33k $\Omega$  NEON

**8** 250 VAC 150k $\Omega$  NEON

## ACCESSORIES

**377C00000** IP65 SPLASH PROOF RUBBER BOOT



# CG Series

## Single Pole Power Rocker Switches

### Features/Benefits

- Bevelled frame
- Illuminated versions available
- Easy panel mount installation

### Typical Applications

- Computers and peripherals
- Small appliances
- Instrument panels
- Industrial controls
- RoHS compliant



**UL 61058-1**

### Specifications

CONTACT RATING:  
16 AMPS @ 125 VAC, 10 AMPS @ 250 VAC.  
10 AMPS @ 250 VAC, 6 AMPS @ 250 VAC.  
ELECTRICAL LIFE: 10,000 make and break cycles at full load.  
INSULATION RESISTANCE:  $10^8 \Omega$  min.  
DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.  
OPERATING TEMPERATURE: -20°C to +85°C

### Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), black, matte finish.  
ILLUMINATED ACTUATOR: Polycarbonate, matte finish.  
CENTER CONTACTS: Silver plated, copper alloy.  
END CONTACTS: Silver plated.  
ALL TERMINALS: Silver plated, copper alloy.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-87 through G-89. For additional options not shown in catalog, consult Customer Service Center.

<b>Switch Function</b>	<b>Actuator</b>	<b>Actuator Color</b>	<b>Mounting Style/Color</b>	<b>Termination</b>	<b>Actuator Marking</b>	<b>Contact Rating</b>	<b>Lamp Rating</b>
<b>CG101</b> SPDT On-None-On	<b>J1</b> Rocker	<b>2</b> Black	<b>S2</b> Snap-in, black	<b>05</b> .250" quick connect	<b>(NONE)</b> No marking	<b>QF</b> Silver	<b>(NONE)</b> No lamp
<b>CG102</b> SPST On-None-Off	<b>J2</b> **Two-tone rocker	<b>1</b> White	<b>S1</b> Snap-in, white		<b>D</b> ON-OFF		<b>7</b> 125 VAC neon
<b>CG103</b> SPDT On-Off-On	<b>J3</b> Illuminated rocker	<b>3</b> Red			<b>H</b> "O I" - international ON-OFF		<b>8</b> 250 VAC neon
<b>CG105</b> SPDT Mom-Off-Mom		<b>R</b> Red, illuminated			<b>P</b> "O -" international ON-OFF		
<b>CG12 *</b> SPST On-None-Off		<b>A</b> Amber, illuminated					
		<b>G</b> Green, illuminated					

\* CG12 — for switches with both marking and illumination

\*\* J2 — refer to table on page G-88 for actuator options

Rocker



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

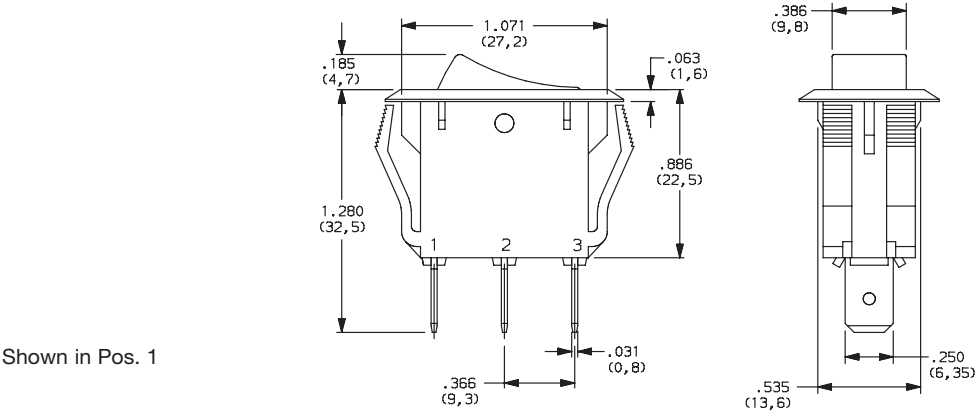
[www.ck-components.com](http://www.ck-components.com)

# CG Series Single Pole Power Rocker Switches

## SWITCH FUNCTION

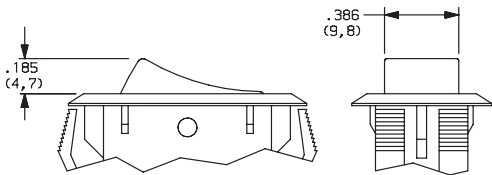
NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		Pos. 1	Pos. 2	Pos. 3	Pos. 1	Pos. 2	Pos. 3	
		C&K marking on opposite side			C&K marking on opposite side			
SP	CG101	ON	NONE	ON	1-2	N/A	2-3	
	CG102	ON	NONE	OFF	1-2		OPEN	
	CG103	ON	OFF	ON	1-2	OPEN	2-3	
	CG105	MOM	OFF	MOM	1-2	OPEN	2-3	
	CG12 *	ON	NONE	OFF	1-2	N/A	OPEN	

\* CG12 - for switches with both marking and illumination



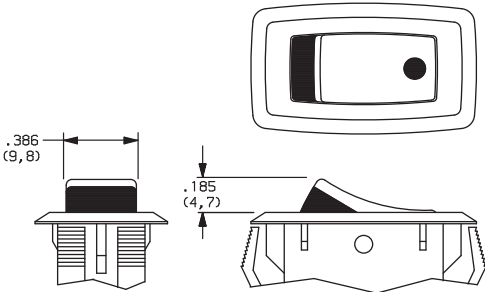
## ACTUATOR

- J1 ROCKER
- J3 ILLUMINATED ROCKER

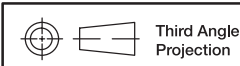


NOTE: J3 actuator available with CG102 switch function only.

- J2 TWO-TONE ROCKER



NOTE: Available with CG102 switch function only.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

www.ck-components.com



# CG Series

## Single Pole Power Rocker Switches

### ACTUATOR COLOR

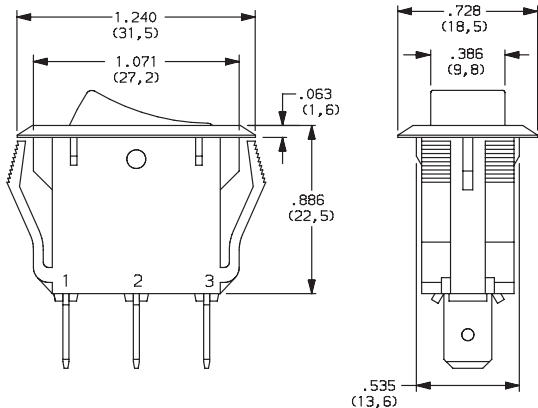
ACTUATOR	OPTION CODE	ACTUATOR COLOR
J1	2	BLACK
	1	WHITE
	3	RED
J3	R	RED, ILLUMINATED
	A	AMBER, ILLUMINATED
	G	GREEN, ILLUMINATED

OPTION CODE	ACTUATOR COLOR	
	TOP	BOTTOM
1	WHITE	RED
2	WHITE	BLACK
3	RED	WHITE
4	BLACK	WHITE
5	BLACK	RED

J2 actuator only

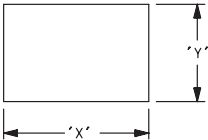
### MOUNTING STYLE/COLOR

- S2 SNAP-IN, BLACK
- S1 SNAP-IN, WHITE



Shown in Pos. 1

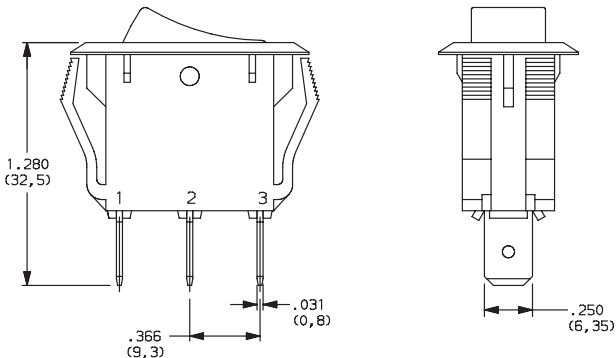
#### PANEL MOUNTING



PANEL THICKNESS	"X"	"Y"
0.030-0.049 (0,75-1,25)	1.087-.004 (27,6-0,1)	0.543+.004 (13,8+0,1)
0.049-0.079 (1,25-2,0)	1.094-.004 (27,8-0,1)	0.543+.004 (13,8+0,1)
0.079-0.118 (2,0-3,0)	1.102-.004 (28,0-0,1)	0.543+.004 (13,8+0,1)

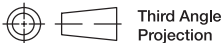
### TERMINATION

- 05 .250" QUICK CONNECT



Shown in Pos. 1

Rocker



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

www.ck-components.com

CG Series  
Single Pole Power Rocker Switches

ACTUATOR MARKING

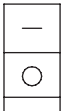
**NONE** NO MARKING



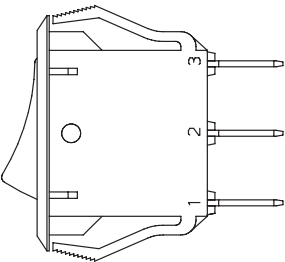
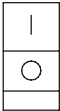
**D** ON-OFF



**H** O I



**P** O -



**NOTE:** Orientation of actuator marking and terminals.

Shown in Pos. 1

CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
<b>QF</b>	SILVER	POWER	16 AMPS @ 125 VAC; 10 AMPS @ 250 VAC 10 AMPS @ 250 VAC

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.



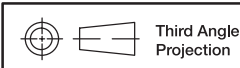
LAMP RATING

**(NONE)** NO LAMP

**7** 125 VAC 33kΩ NEON

**8** 250 VAC 150kΩ NEON

**NOTE:** Lamp rating for J3 actuator option.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

[www.ck-components.com](http://www.ck-components.com)



# CL Series

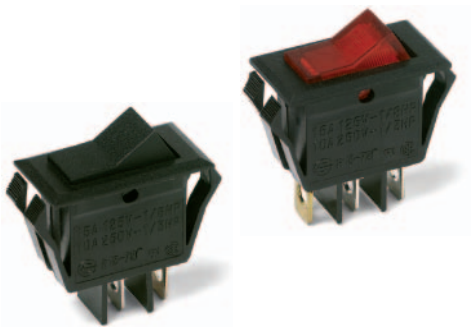
## Single Pole Power Rocker Switches

### Features/Benefits

- Illuminated versions available
- Positive detent
- Snap-in mounting

### Typical Applications

- Floor care products
- Power outlet strips
- HVAC units
- RoHS compliant



### Specifications

CONTACT RATING:  
16 AMPS @ 125 VAC, 1/3 HP;  
10 AMPS @ 250 VAC, 1/2 HP.  
ELECTRICAL LIFE: 10,000 make and break cycles at full load.  
INSULATION RESISTANCE:  $10^8 \Omega$  min.  
DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.  
OPERATING TEMPERATURE: -20°C to +80°C

### Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), black, matte finish.  
ILLUMINATED ACTUATOR: Polycarbonate, matte finish.  
CENTER CONTACTS: Silver plated, copper alloy.  
END CONTACTS: Silver plated.  
ALL TERMINALS: Silver plated, copper alloy.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-91 through G-93. For additional options not shown in catalog, consult Customer Service Center.

<div>Switch Function</div> <div>CL101 SPDT On-None-On</div> <div>CL102 SPST On-None-Off</div> <div>CL12 * SPST On-None-Off</div>	<div>Actuator</div> <div>J7 Rocker</div> <div>J9 Illuminated rocker</div>	<div>Actuator Color</div> <div>2 Black</div> <div>1 White</div> <div>3 Red</div> <div>R Red, illuminated</div> <div>A Amber, illuminated</div> <div>G Green, illuminated</div>	<div>Mounting Style/Color</div> <div>S2 Snap-in, black</div> <div>S1 Snap-in, white</div>	<div>Termination</div> <div>05 .250" quick connect</div>	<div>Actuator Marking</div> <div>(NONE) No marking</div> <div>D ON-OFF</div> <div>H "O I" - international ON-OFF</div> <div>P "O -" international ON-OFF</div>	<div>Contact Rating</div> <div>QA Silver</div>	<div>Lamp Rating</div> <div>(NONE) No lamp</div> <div>7 125 VAC neon</div> <div>8 250 VAC neon</div>
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\* CL12 - for switches with both marking and illumination

Rocker



G

C&K









Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



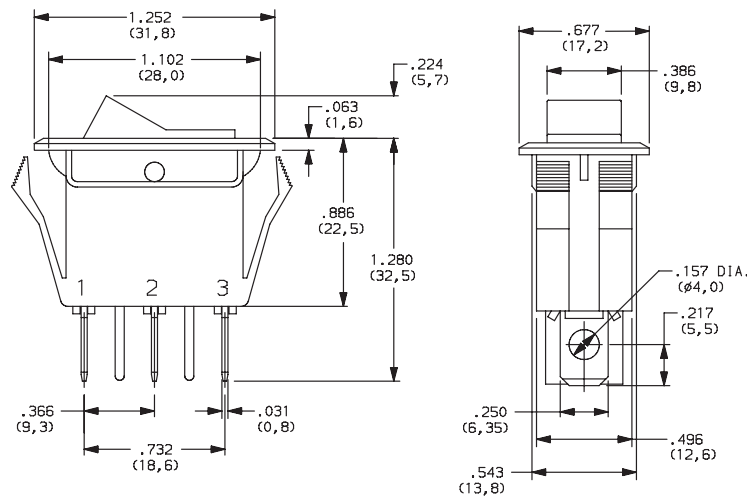
CL Series  
Single Pole Power Rocker Switches

SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		Pos. 1	Pos. 2	Pos. 3	Pos. 1	Pos. 2	Pos. 3	
								
		C&K marking on opposite side			C&K marking on opposite side			
SP	CL101	ON	NONE	ON	2-1	N/A	2-3	
	CL102	ON	NONE	OFF	2-1		OPEN	 OR For Illuminated Version
	CL12 *	ON	NONE	OFF				

\* CL12 - for switches with both marking and illumination

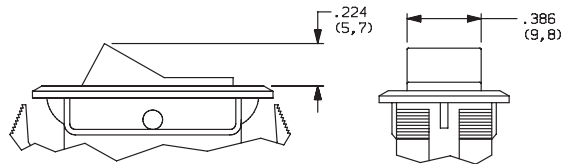


Shown in Pos. 1

ACTUATOR



- J7 ROCKER  
J9 ILLUMINATED ROCKER



NOTE: J9 actuator available with CL102 & CL12 switch function only.

ACTUATOR COLOR



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED
R	RED, ILLUMINATED
A	AMBER, ILLUMINATED
G	GREEN, ILLUMINATED



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

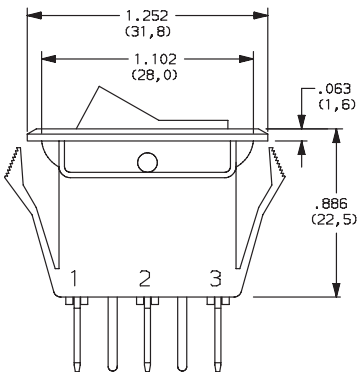
www.ck-components.com



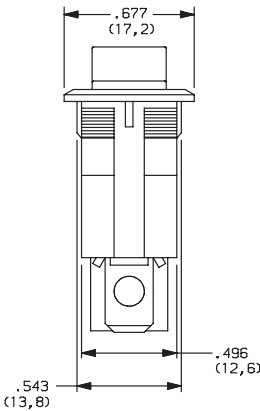
# CL Series Single Pole Power Rocker Switches

MOUNTING STYLE/COLOR 

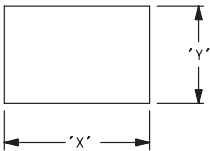
- S2** SNAP-IN, BLACK
- S1** SNAP-IN, WHITE



Shown in Pos. 1



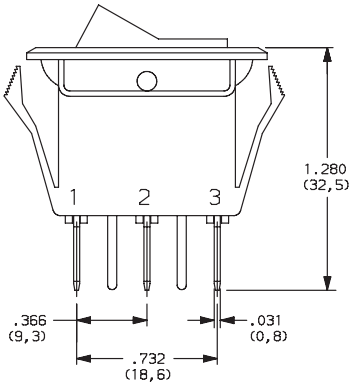
## PANEL MOUNTING



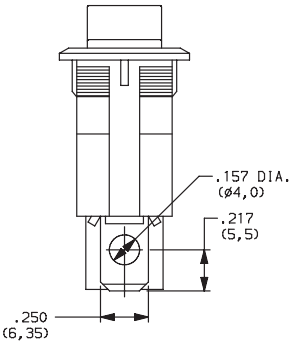
PANEL THICKNESS	"X"	"Y"
0.030-0.049 (0,75-1,25)	1.126-.004 (28,6-0,1)	0.551+.004 (14,0+0,1)
0.049-0.079 (1,25-2,0)	1.134-.004 (28,8-0,1)	0.551+.004 (14,0+0,1)
0.079-0.118 (2,0-3,0)	1.150-.004 (29,2-0,1)	0.551+.004 (14,0+0,1)

## TERMINATION

- 05** .250" QUICK CONNECT



Shown in Pos. 1



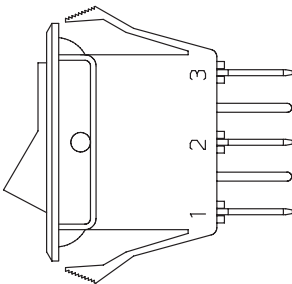
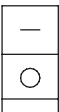
## ACTUATOR MARKING

- NONE** NO MARKING
- D** ON-OFF



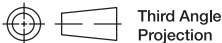
- H** 0 I

- P** 0 -



**NOTE:** Orientation of actuator marking and terminals.

Shown in Pos. 1



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

[www.ck-components.com](http://www.ck-components.com)

CL Series  
Single Pole Power Rocker Switches

CONTACT MATERIAL 

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
QA	SILVER	POWER	16 AMPS @ 125 VAC; 1/3 HP; 10 AMPS @ 250 VAC, 1/2 HP

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.



LAMP RATING 

- (NONE) NO LAMP
- 7 125 VAC 33kΩ NEON
- 8 250 VAC 150kΩ NEON

NOTE: Lamp rating for J9 actuator option.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

www.ck-components.com

# CM Series

## Single Pole Power Rocker Switches

### Features/Benefits

- Illuminated versions available
- Easy to install snap-in design
- Multiple actuator and termination styles to choose from

### Typical Applications

- Computers and peripherals
- Power supplies
- Industrial equipment
- Small appliances
- RoHS compliant



### Specifications

CONTACT RATING:

16 AMPS @ 125 VAC, 1/8 HP;

10 AMPS @ 250 VAC, 1/3 HP.

ELECTRICAL LIFE: 10,000 make and break cycles at full load.

INSULATION RESISTANCE:  $10^8 \Omega$  min.

DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.

OPERATING TEMPERATURE: -20°C to +80°C

### Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), black, gloss or matte finish.

ILLUMINATED ACTUATOR: Polycarbonate, gloss or matte finish.

CENTER CONTACTS: Silver plated, copper alloy.

END CONTACTS: Silver plated.

ALL TERMINALS: Silver plated, copper alloy.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-95 through G-97. For additional options not shown in catalog, consult Customer Service Center.

<div>Switch Function</div> <div>CM101 SPDT On-None-On</div> <div>CM102 SPST On-None-Off</div> <div>CM103 SPDT On-Off-On</div> <div>CM107 SPDT On-Off-Mom.</div> <div>CM12 * SPST On-None-Off</div>	<div>Actuator</div> <div>J1 Rocker</div> <div>J3 Illuminated rocker</div>	<div>Actuator Color</div> <div>2 Black</div> <div>1 White</div> <div>3 Red</div> <div>R Red, illuminated</div> <div>A Amber, illuminated</div> <div>G Green, illuminated</div>	<div>Mounting Style/Color</div> <div>S2 Snap-in, black</div> <div>S4 Snap-in, black</div> <div>S1 Snap-in, white</div> <div>S3 Snap-in, white</div>	<div>Termination</div> <div>05 .250" quick connect</div> <div>07 Solder lug</div>	<div>Actuator Marking</div> <div>(NONE) No marking</div> <div>D ON-OFF</div> <div>H "O I" - international ON-OFF</div> <div>P "O -" international ON-OFF</div>	<div>Contact Rating</div> <div>QA Silver</div>	<div>Lamp Rating</div> <div>(NONE) No lamp</div> <div>7 125 VAC neon</div> <div>8 250 VAC neon</div>
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\* CM12 - for switches with both marking and illumination

Rocker



G

C&K



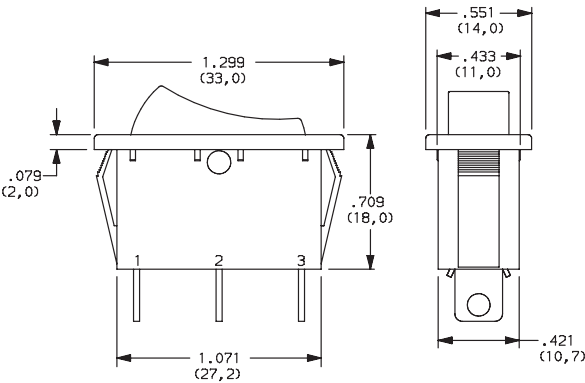
# CM Series Single Pole Power Rocker Switches

ACTUATOR COLOR 

OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED
R	RED, ILLUMINATED
A	AMBER, ILLUMINATED
G	GREEN, ILLUMINATED

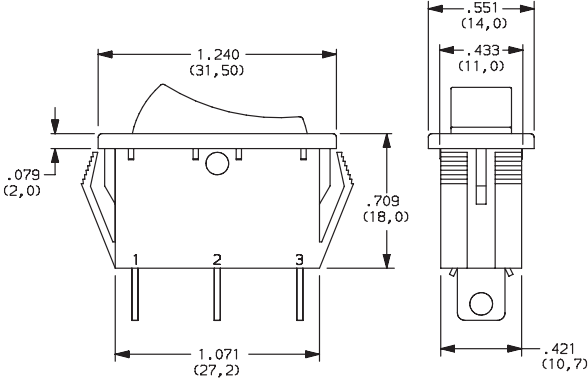
MOUNTING STYLE/COLOR 

S2 SNAP-IN, BLACK  
S1 SNAP-IN, WHITE



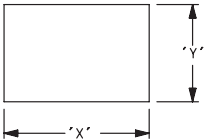
Shown in Pos. 1

S4 SNAP-IN, BLACK (SHORT FRAME)  
S3 SNAP-IN, WHITE



Shown in Pos. 1

PANEL MOUNTING

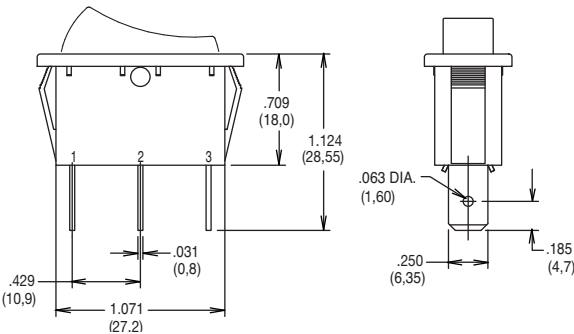


PANEL THICKNESS	"X"	"Y"
0.030-0.049 (0,75-1,25)	1.189-.004 (30,2-0,1)	0.441+.004 (11,2+0,1)
0.049-0.079 (1,25-2,0)	1.197-.004 (30,4-0,1)	0.441+.004 (11,2+0,1)
0.079-0.118 (2,0-3,0)	1.212-.004 (30,8-0,1)	0.441+.004 (11,2+0,1)

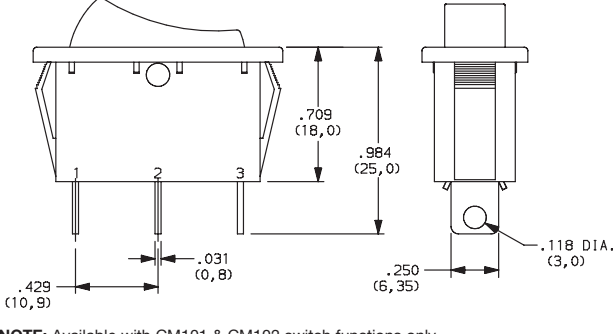
TERMINATION 

05 .250 QUICK CONNECT

07 SOLDER LUG



Shown in Pos. 1



NOTE: Available with CM101 & CM102 switch functions only.

Rocker

Third Angle  
Projection

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

# CM Series Single Pole Power Rocker Switches

## ACTUATOR MARKING

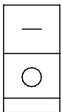
**NONE** NO MARKING



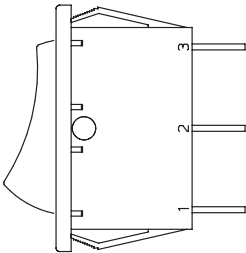
**D** ON-OFF



**H** 0 I



**P** 0 -



**NOTE:** Orientation of actuator marking and terminals.  
Shown in Pos. 1

## CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
		POWER	
<b>QA</b>	SILVER		16 AMPS @ 125 VAC; 1/8 HP
			10 AMPS @ 250 VAC, 1/3 HP

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.



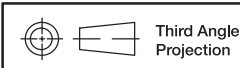
## LAMP RATING

**(NONE)** NO LAMP

**7** 125 VAC 33kΩ NEON

**8** 250 VAC 150kΩ NEON

**NOTE:** Lamp rating for J3 & J8 actuator option.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

[www.ck-components.com](http://www.ck-components.com)

Rocker



G

# CN Series

## Double Pole Power Rocker Switches

### Features/Benefits

- Illuminated versions available
- Multiple actuator and termination styles
- Robust design
- Custom version upon request
- RoHS compliant



### Typical Applications

- Appliances
- Office equipment
- Computers and peripherals
- Off-road vehicles
- Industrial machines
- HVAC units
- Transportation



### Specifications

CONTACT RATING:  
16 AMPS @ 125 VAC, 1/8 HP;  
10 AMPS @ 250 VAC, 1/3 HP.  
ELECTRICAL LIFE: 10,000 make and break cycles at full load.  
INSULATION RESISTANCE:  $10^8 \Omega$  min.  
DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.  
OPERATING TEMPERATURE: -20°C to +85°C

### Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), black, matte finish.  
ILLUMINATED ACTUATOR: Polycarbonate, matte finish.  
CENTER CONTACTS: Silver plated, copper alloy.  
END CONTACTS: Silver plated  $\text{AgSuO}_2\text{InO}_3$ .  
ALL TERMINALS: Silver plated, copper alloy.

**Note:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-99 through G-101. For additional options not shown in catalog, consult Customer Service Center.

<div>Switch Function</div> <div><div>CN201</div>DPDT On-None-On</div> <div><div>CN202</div>DPST On-None-Off</div> <div><div>CN22</div>* DPST On-None-Off</div>		<div>Actuator</div> <div><div>J1</div>Rocker</div> <div><div>J3</div>Illuminated rocker</div> <div><div>J6</div>Rocker</div> <div><div>J8</div>Illuminated rocker</div>	
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\* CN22 - for switches with both marking and illumination

Rocker



G

C&K

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



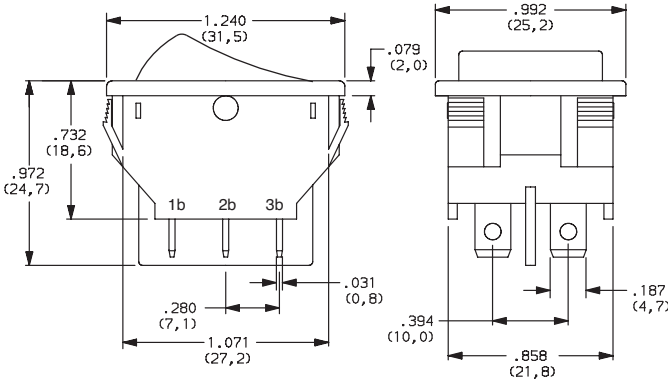
# CN Series

## Double Pole Power Rocker Switches

### SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		Pos. 1	Pos. 2	Pos. 3	Pos. 1	Pos. 2	Pos. 3	
		C&K marking on opposite side			C&K marking on opposite side			
DP	CN201	ON	NONE	ON	2-1 4-5	N/A	2-3 6-5	
	CN202	ON	NONE	OFF			OPEN	
	CN22 *	ON	NONE	OFF				

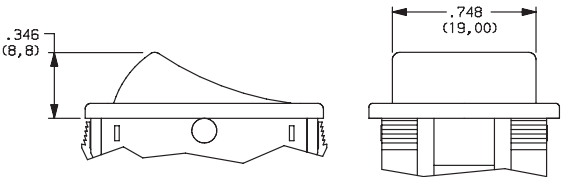
\* CN22 - for switches with both marking and illumination



Shown in Pos. 1

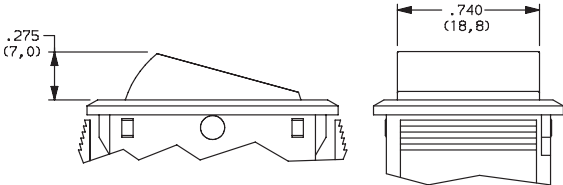
### ACTUATOR

- J1 ROCKER
- J3 ILLUMINATED ROCKER

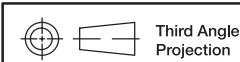


**NOTE:** J1 & J3 actuators available with Q contact rating only.  
J3 actuator available with CN202 & CN22 switch function only.

- J6 ROCKER
- J8 ILLUMINATED ROCKER



**NOTE:** J6 & J8 actuators available with QA contact rating only.  
J6 actuator available with CN201 & CN202 switch functions,  
J8 actuator available with CN202 & CN22 switch function only.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



# CN Series

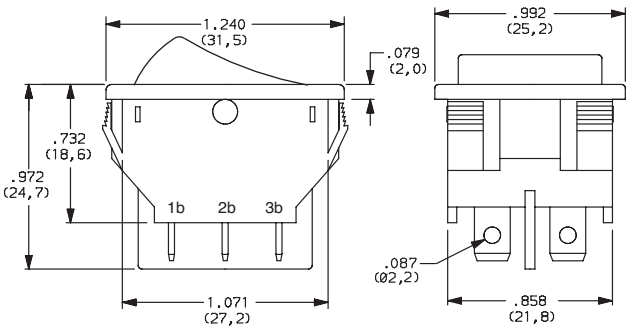
## Double Pole Power Rocker Switches

### ACTUATOR COLOR

OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED
R	RED, ILLUMINATED
A	AMBER, ILLUMINATED
G	GREEN, ILLUMINATED

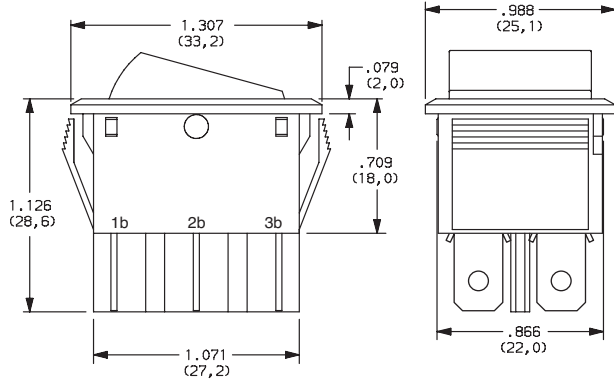
### MOUNTING STYLE/COLOR

**S2** SNAP-IN, BLACK  
**S1** SNAP-IN, WHITE



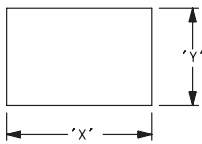
**NOTE:** Available with 15 termination and Q contact rating only.  
Shown in Pos. 1

**S4** SNAP-IN, BLACK  
**S3** SNAP-IN, WHITE



**NOTE:** Available with 05 termination and QA contact rating only.  
Shown in Pos. 1

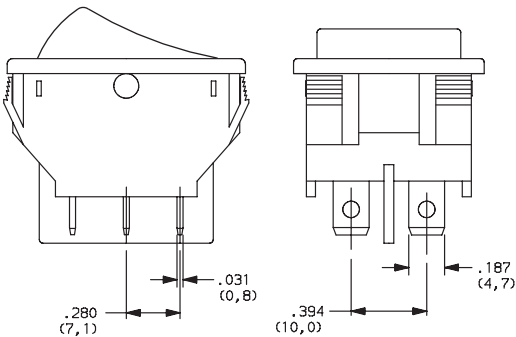
#### PANEL MOUNTING



PANEL THICKNESS	"X"	"Y"
0.030-0.049 (0,75-1,25)	1.190-.004 (30,2-0,1)	0.874+.004 (22,2+0,1)
0.049-0.079 (1,25-2,0)	1.197-.004 (30,4-0,1)	0.874+.004 (22,2+0,1)
0.079-0.118 (2,0-3,0)	1.213-.004 (30,8-0,1)	0.874+.004 (22,2+0,1)

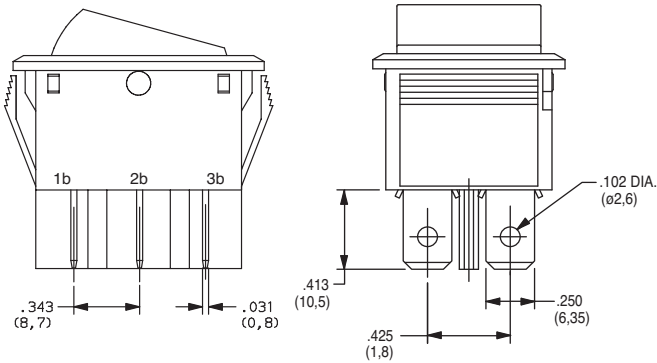
### TERMINATION

**15** .187" QUICK CONNECT

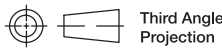


**NOTE:** Available with S1 & S2 mounting style and Q contact rating only.  
Shown in Pos. 1

**05** .250" QUICK CONNECT



**NOTE:** Available with S3 & S4 mounting styles and QA contact rating, CN201 & CN202 switch functions only.  
Shown in Pos. 1



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

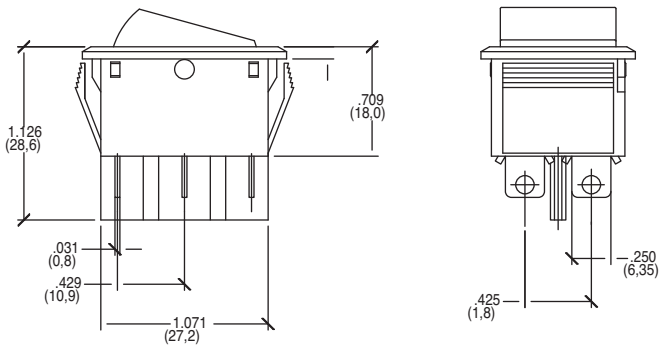


# CN Series

## Double Pole Power Rocker Switches

### TERMINATION

07 SOLDER LUG



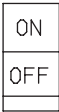
Shown in Pos. 1

### ACTUATOR MARKING

NONE NO MARKING



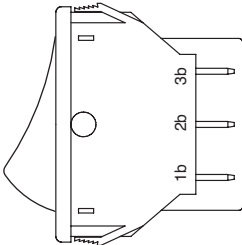
D ON-OFF



H O I



P O -



NOTE: Orientation of actuator marking and terminals.  
Shown in Pos. 1

### CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
Q	SILVER	POWER	16 AMPS @ 125 VAC; 10 AMPS @ 250 VAC
QA			16 AMPS @ 125 VAC, 1/8 HP @ 125 VAC; 10 AMPS @ 250 VAC, 1/3 HP @ 250 VAC

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.



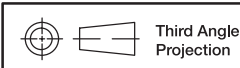
### LAMP RATING

(NONE) NO LAMP

7 125 VAC 33kΩ NEON

8 250 VAC 150kΩ NEON

NOTE: Lamp rating for J3 & J8 actuator options.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# CA Series

## Power Rocker Switches

### Features/Benefits

- 15 AMPS @ 125 V AC
- Cosmetic slimline detail
- Positive detent

### Typical Applications

- Hair dryers and other small appliances
- HVAC and other large appliances
- RoHS compliant



### Specifications

CONTACT RATING: 15 AMPS @ 125 V AC;  
10 AMPS @ 250 V AC;  
1/4 HP @ 125 V AC or 250 V AC

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

INSULATION RESISTANCE:  $10^9 \Omega$  min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to +65°C

### Materials

HOUSING: 6/6 nylon (UL 94V-2), black.

ACTUATOR: Polycarbonate (UL 94V-2), black.

CONTACTS: Coin silver, silver plated.

TERMINALS: Copper, silver plated.

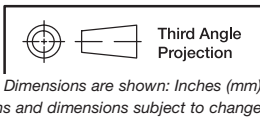
CONTACT SPRING: Music wire.

**NOTE:** Specifications and material listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-106 through G-108. For additional options not shown in catalog, consult Customer Service Center.

<b>Switch Function</b> CA01 SPDT, On-On CA02 SPST, On-Off CA21 DPDT, On-On CA22 DPST, On-Off	<b>Actuator</b> J1 Rocker with gloss finish J7 Curved rocker with matte finish	<b>Actuator Color</b> 2 Black 1 White 3 Red 6 Green	<b>Housing Color</b> 2 Black	<b>Terminations</b> 07 Quick connect	<b>Actuator Markings</b> NONE No marking D ON-OFF H 0 I P 0 -	<b>Contact Material</b> Q Silver
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# CA Series Power Rocker Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS. 1	POS. 2	POS. 1	POS. 2	
SP	CA01	ON	ON	1-1A	1-1B	SPDT
	CA02	ON	OFF	1-1A	OPEN	SPST
<div> <div> <div>SPST</div> </div> <div> <div>ACTUATOR SHOWN IN POS. 1</div> </div> <div> <div>TERMINAL NOS. MARKED ON HOUSING</div> </div> </div> <div>Part number shown: CA02J12207Q</div>						
DP	CA21	ON	ON	1-1A, 2-2A	1-1B, 2-2B	DPDT
	CA22	ON	OFF	1-1A, 2-2A	OPEN	DPST
<div> <div> <div>DPDT</div> </div> <div> <div>ACTUATOR SHOWN IN POS. 1</div> </div> <div> <div>TERMINAL NOS. MARKED ON HOUSING</div> </div> </div> <div>Part number shown: CA21J12207Q</div>						

For complete contact ratings and agency approvals, see CONTACT MATERIAL section, page G-108.  
 Contacts make on side opposite actuator thrown.  
 All models with all options.



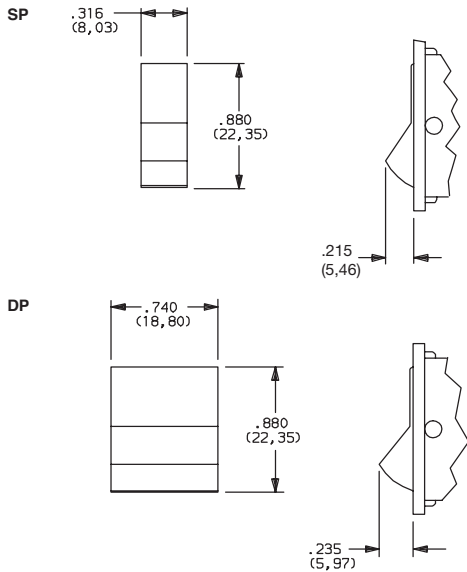
Dimensions are shown: Inches (mm)  
 Specifications and dimensions subject to change



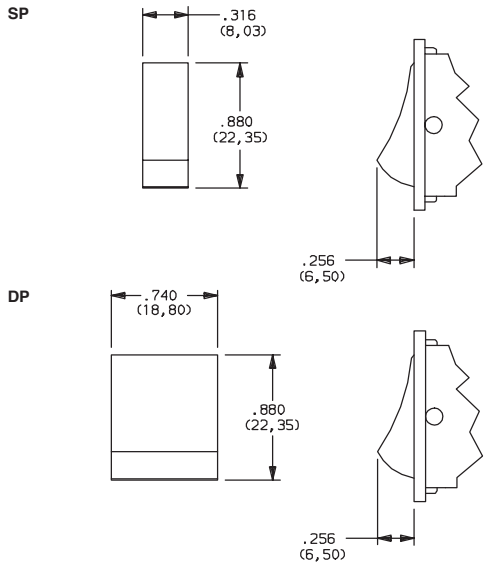
# CA Series Power Rocker Switches

## ACTUATOR

### J1 ROCKER WITH GLOSS FINISH



### J7 CURVED ROCKER WITH MATTE FINISH



## ACTUATOR COLOR

OPTION CODE	OPAQUE ACTUATOR COLOR
1	WHITE
2	BLACK
3	RED
6	GREEN

**NOTE:** Actuator finish: matte. Special colors available, consult Customer Service Center.

## HOUSING COLOR

OPTION CODE	HOUSING COLOR
2	BLACK

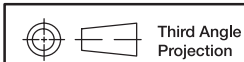
**NOTE:** Housing frame finish: matte.

Rocker



G

**C&K**



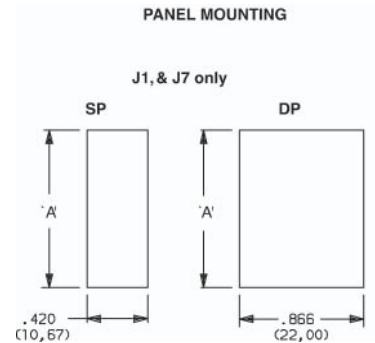
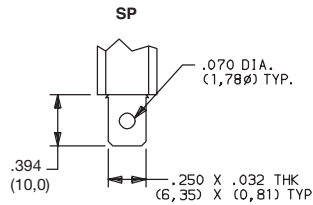
Third Angle  
Projection

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# CA Series Power Rocker Switches

## TERMINATIONS

### 07 QUICK CONNECT



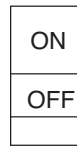
PANEL THICKNESS	DIM 'A'
.059-.078 (1,50) (2,00)	1.102 (28,00)
.078-.118 (2,00) (3,00)	1.110 (28,20)
.118-.177 (3,00) (4,50)	1.126 (28,60)

## ACTUATOR MARKINGS

### NONE NO MARKING



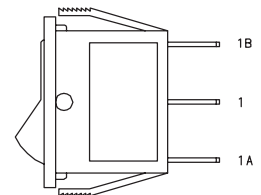
### D ON-OFF



### H O |



### P O -



Marking color white, standard for all actuator colors except white and yellow. Marking color black, standard for white and yellow actuators. Consult Customer Service Center for other available markings and colors.

**NOTE:** Orientation of actuator markings and terminals

## CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
QA	SILVER	POWER	16 AMPS @ 125 VAC; 1/3 HP; 10 AMPS @ 250 VAC, 1/2 HP

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

<sup>1</sup> CONTACTS: Coin silver, silver plated.  
TERMINALS: Copper, silver plated.

All models  with all options.



# CA Series

## Illuminated Power Rocker Switches

### Features/Benefits

- 15 AMPS @ 125 V AC
- Illuminated actuator
- Various actuator styles

### Typical Applications

- Power outlet strips
- Appliances
- Handling and packaging machines
- RoHS compliant



### Specifications

CONTACT RATING: 15 AMPS @ 125 V AC; 10 AMPS @ 250 V AC; 1/4 HP @ 125 V AC or 250 V AC.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

LAMP LIFE: 20,000 hours typ.

INSULATION RESISTANCE:  $10^9 \Omega$  min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

### Materials

HOUSING: 6/6 nylon (UL 94V-2), black.

ACTUATOR: Polycarbonate (UL 94V-2), red.

CONTACTS: Coin silver, silver plated.

OPERATING TEMPERATURE: -30°C to +65°C

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

### Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-103 through G-105. For additional options not shown in catalog, consult Customer Service Center.

<div>Switch Function</div> <div>CA04 SPST, On-Off</div> <div>CA24 DPST, On-Off</div>	<div>Actuator</div> <div>J1 Rocker</div> <div>J7 Curved rocker</div>	<div>Actuator Color</div> <div>3 Red translucent</div> <div>5 Yellow translucent</div> <div>6 Green translucent</div>	<div>Lamp Voltage</div> <div>7 125 V neon</div> <div>8 250 V neon</div>	<div>Housing Color</div> <div>2 Black</div> <div>1 White</div>	<div>Terminations</div> <div>07 Quick connect</div>	<div>Actuator Markings</div> <div>NONE No markings</div> <div>D ON-OFF</div> <div>H 0 I</div> <div>P 0 -</div>	<div>Contact Material</div> <div>Q Silver</div>
--------------------------------------------------------------------------------------	----------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------	----------------------------------------------------------------	-----------------------------------------------------	----------------------------------------------------------------------------------------------------------------	-------------------------------------------------

Rocker



G

C&K



Third Angle  
Projection

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change



# CA Series Illuminated Power Rocker Switches

## SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS. 1	POS. 2	POS. 1	POS. 2	
SP	<b>CA04</b>	ON	OFF	1-1A	OPEN	<p>SPST</p>
<p><b>SPST</b></p> <p>Part number shown: CA04J137207Q</p> <p>ACTUATOR SHOWN IN POS. 1 - 'ON' POSITION</p> <p>TERMINAL NOS. MARKED ON HOUSING</p>						
DP	<b>CA24</b>	ON	OFF	1-1A, 2-2A	OPEN	<p>DPST</p>
<p><b>DPST</b></p> <p>Part number shown: CA24J137207Q</p> <p>ACTUATOR SHOWN IN POS. 1 - 'ON' POSITION</p> <p>TERMINAL NOS. MARKED ON HOUSING</p>						

See CONTACT MATERIAL section, page G-105, for complete contact ratings and agency approvals.  
Contacts make on side opposite actuator thrown.

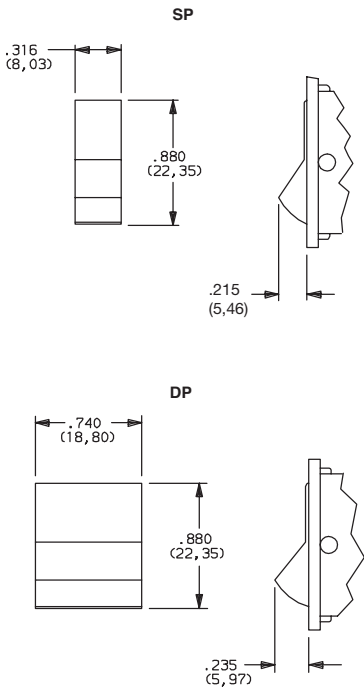
All models with all options.



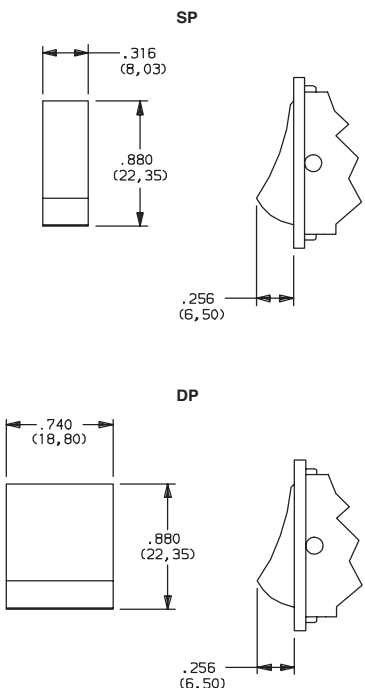
# CA Series Illuminated Power Rocker Switches

## ACTUATOR

**J1**   ROCKER



**J7**   CURVED ROCKER



## ACTUATOR COLOR

OPTION CODE	ACTUATOR COLOR
<b>3</b>	RED TRANSLUCENT
<b>5</b>	YELLOW
<b>6</b>	GREEN

**NOTE:** Special colors available, consult Customer Service Center.

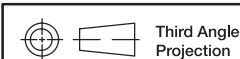
## NEON LAMP VOLTAGE

- 7**   125 V NEON
- 8**   250 V NEON

## HOUSING COLOR

OPTION CODE	HOUSING COLOR
<b>2</b>	BLACK
<b>1</b>	WHITE

**NOTE:** Housing frame finish: matte. Special colors available, consult Customer Service Center.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

[www.ck-components.com](http://www.ck-components.com)

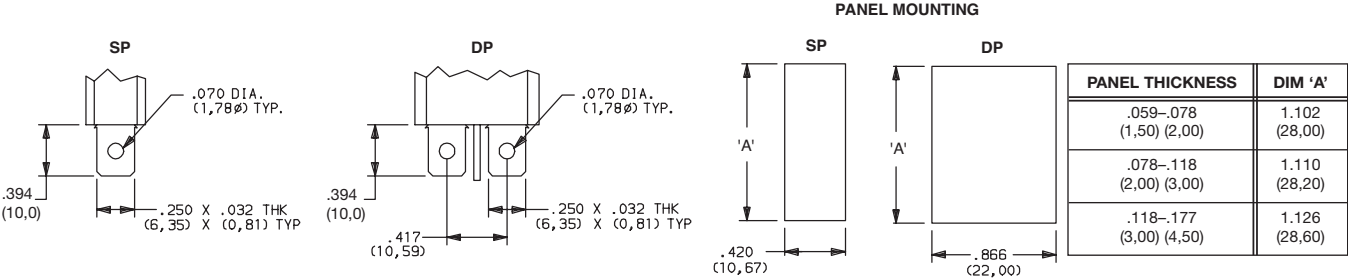
Rocker



# CA Series Illuminated Power Rocker Switches

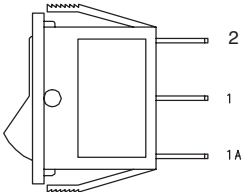
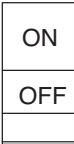
## TERMINATIONS

07 QUICK CONNECT



## ACTUATOR MARKINGS

**NONE** NO MARKING      **D** ON-OFF      **H** O I      **P** O -



Marking color white, standard for all actuator colors except yellow. Marking color black, standard for yellow actuators. Consult Customer Service Center for other available markings and colors.

**NOTE:** Orientation of actuator markings and terminals

## CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
<b>Q</b>	SILVER <sup>1</sup>	POWER	15 AMPS @ 125 V AC; 10 AMPS @ 250 V AC; 1/4 HP @ 125 V AC or 250 V AC (UL/CSA).

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

<sup>1</sup> CONTACTS: Coin silver, silver plated.  
TERMINALS: Copper, silver plated.

All models with all options.

SW Series  
Rocker Switches

NEW!

Features/Benefits

- Various designs up to 16 amps
- Heavy duty and extended life cycles
- SPST, SPDT and DPST options
- Different symbols available

Typical Applications

- Household appliances
- Industrial equipment
- Audio & visual equipment
- Telecommunication
- Office equipment



Specifications

CONTACT RATING: 6.5 Amps @ 125 VAC  
 ELECTRICAL LIFE: 6,000 cycles at full load.  
 INITIAL CONTACT RESISTANCE: 100m Ω min.  
 INSULATION RESISTANCE: 100M Ω min.  
 DIELECTRIC STRENGTH: 1,500 VAC (50-60 Hz)  
 OPERATING FORCE: ON\_OFF: 250 ± 100 gf  
                                     OFF\_ON: 700 ± 250 gf  
 PACKAGING:       300 pieces per bag (5 trays)  
                           2,400 pieces per box

Materials

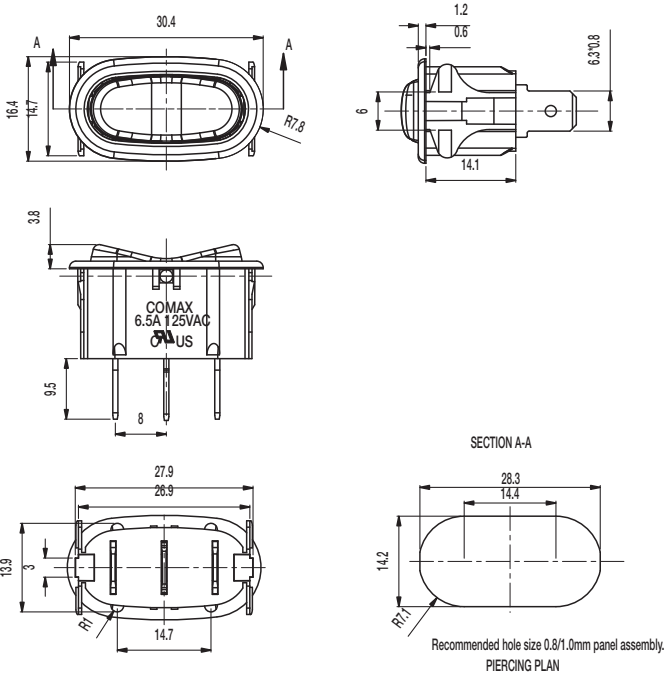
HOUSING: PA (UL 94V-2).  
 KNOB: PA (UL 94V-2).  
 CONTACTS: Silver plated.

**NOTE:** Specifications and materials listed above are for switches with standard options.  
 For information on specific and custom switches, consult Customer Service Center.

Environmental

OPERATING TEMPERATURE: 0°C to 65°C

PART NUMBER	HOUSING COLOR
SW-13A65N-A01	White
SW-13A65N-A01 BK	Black



Rocker



Dimensions are shown: mm  
 Specifications and dimensions subject to change